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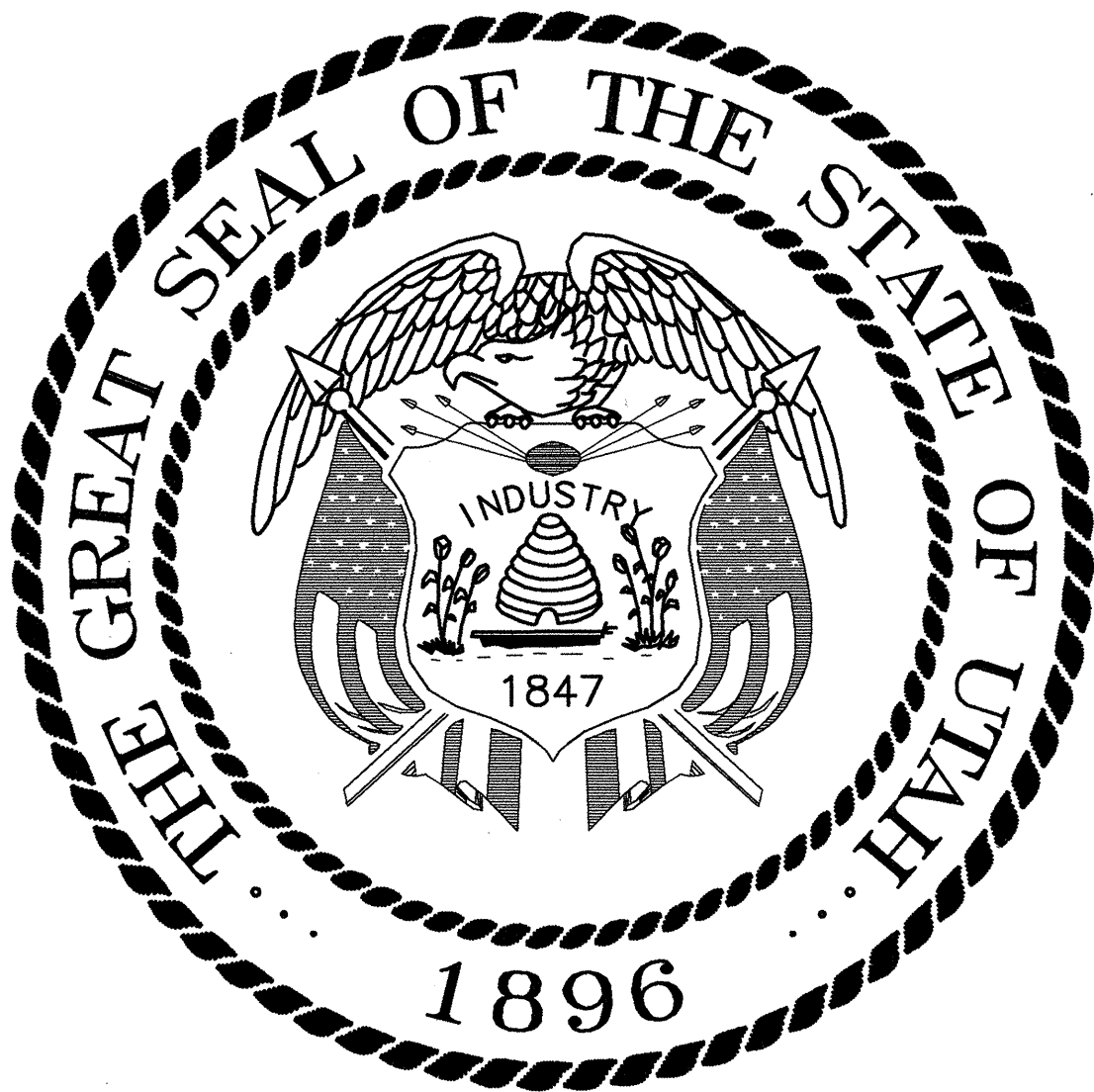
C

B

A

UTAH COLLEGE OF APPLIED TECHNOLOGY - UINTAH BASIN ATC PAINT BOOTH

DFCM PROJECT NO. 05078250
STATE PROPERTY ID NO.
1100 E Lagoon St.
Roosevelt, Utah 84066-3000



State of Utah— Department of Administrative Services

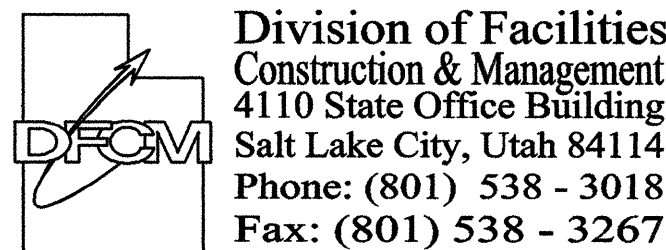
**DIVISION OF FACILITIES CONSTRUCTION
AND MANAGEMENT**

4110 State Office Building / Salt Lake City, Utah 84114 / 538–3018

NOVEMBER 9, 2005

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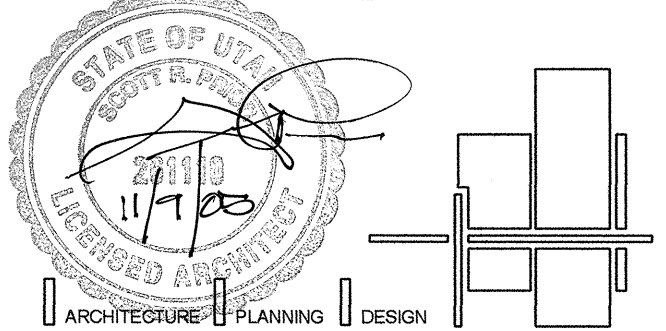
State of Utah
Department of Administrative Services



Internet: <http://www.dfc.state.ut.us>

D
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BUILDING NAME:

C
UINTAH BASIN
APPLIED TECH
COLLEGE

PROJECT TITLE:

B
UINTAH BASIN
APPLIED TECH.
COLLEGE PAINT
BOOTH EXPANSION

A

MARK	DATE	DESCRIPTION
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ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: NOVEMBER 9, 2005

DFCM PROJECT NO: 05078250

CAD PROJECT NO: 2005-11

CAD DWG FILE:

DRAWN BY: BRIAN & SCOTT

CHK'D BY: SCOTT

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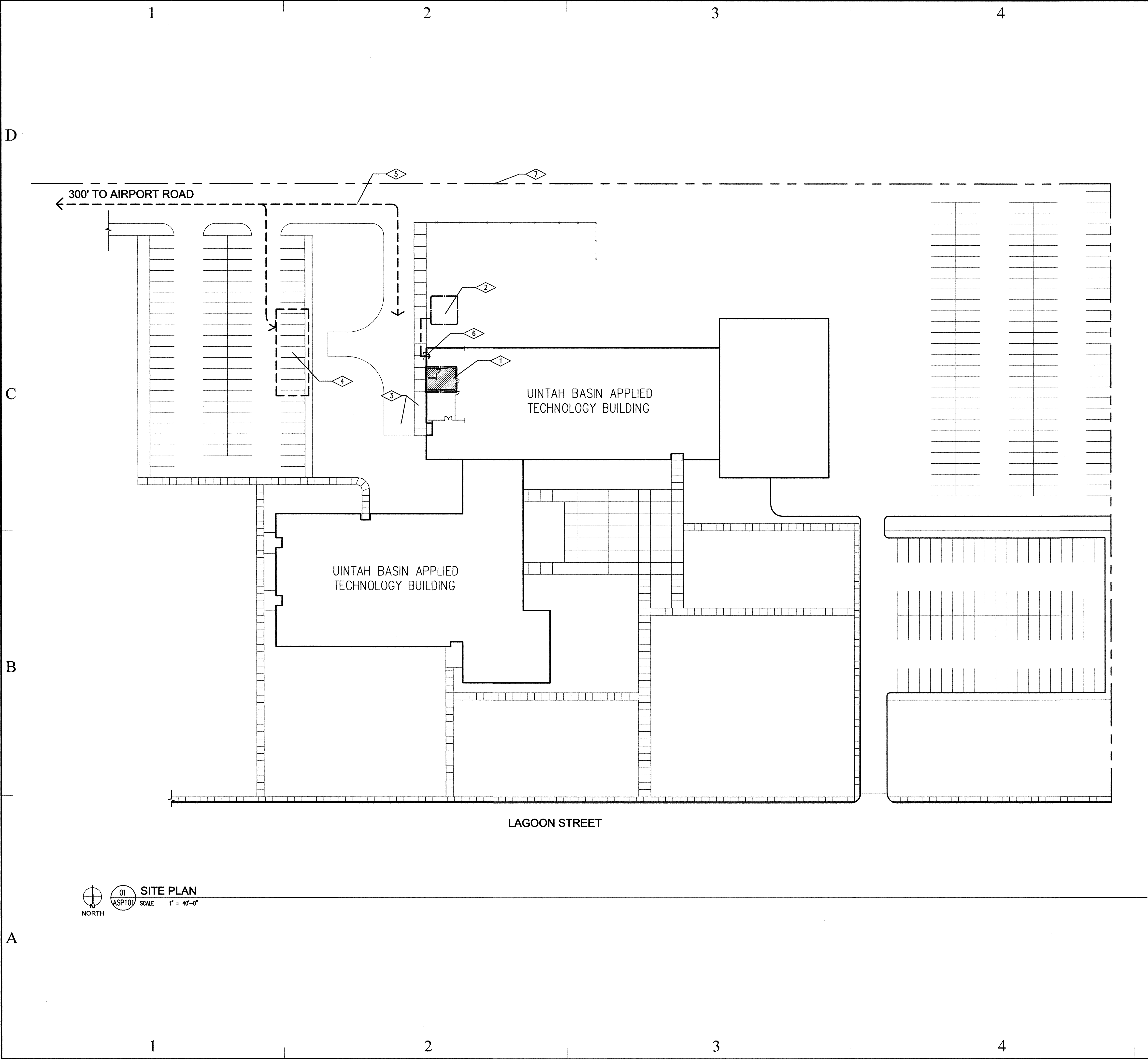
SHEET TITLE

COVER
SHEET

SHEET NUMBER

A-GI000

SHEET 1 OF 15



REFERENCE NOTES

- 1 PROJECT LOCATION
- 2 CONTRACTOR STAGING AREA
- 3 EXISTING CONCRETE AND ASPHALT PATHWAYS TO REMAIN OPEN TO PEDESTRIANS AND VEHICLES AT ALL TIMES DURING CONSTRUCTION
- 4 CONTRACTOR VEHICLE PARKING AREA
- 5 CONTRACTOR VEHICLE ACCESS TO CONSTRUCTION SITE
- 6 GENERAL CONTRACTOR ENTRANCE
- 7 EDGE OF PROPERTY

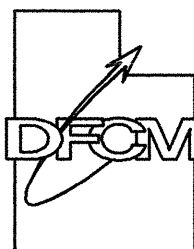
GENERAL NOTES

- 1. GENERAL CONTRACTOR IS RESPONSIBLE FOR REPLACEMENT OF ANY SIDEWALK, CURB & GUTTER, ASPHALT, LANDSCAPING ETC. DISTURBED OR DESTROYED DURING CONSTRUCTION.
- 2. CONTRACTOR SHALL MAINTAIN EMERGENCY AND UTILITY VEHICLE ACCESS AT ALL TIMES TO ALL EXISTING BUILDINGS AND BUILDING ENTRANCES

LEGEND

- HATCH PATTERN INDICATES AREA OF CONSTRUCTION
- GENERAL CONTRACTOR'S & SUBCONTRACTOR'S PARKING AREA
- GENERAL CONTRACTOR'S STAGING AREA
- CONTRACT LIMIT LINE

State of Utah
Department of Administrative Services

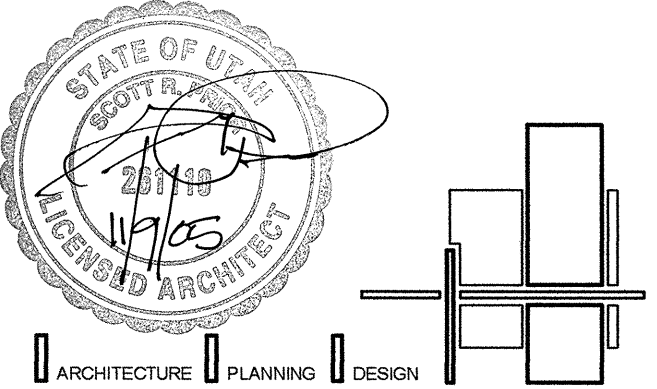


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BUILDING NAME:

UINTAH BASIN
APPLIED TECH
COLLEGE

PROJECT TITLE:

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COLLEGE PAINT
BOOTH EXPANSION

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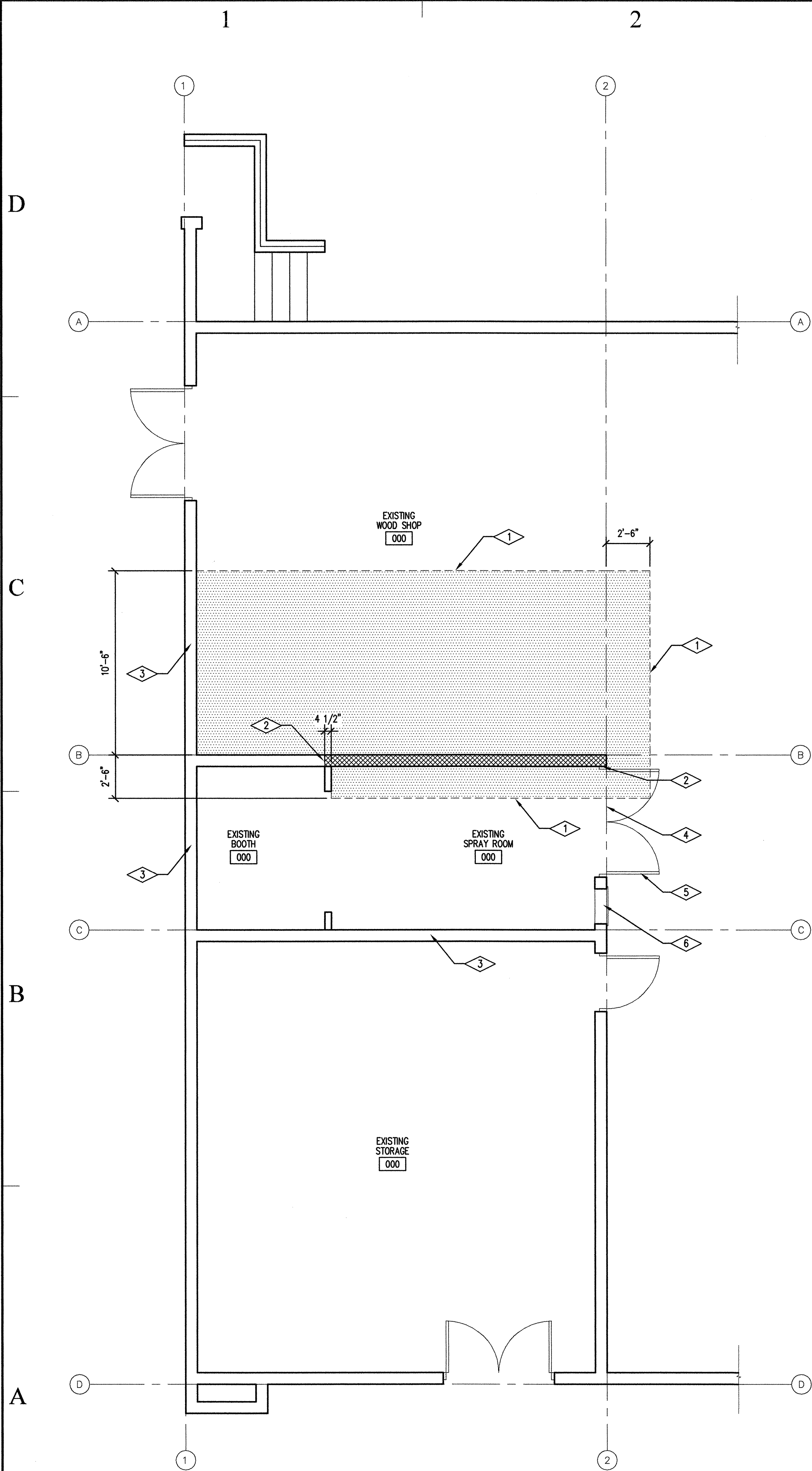
SHEET TITLE

SITE PLAN

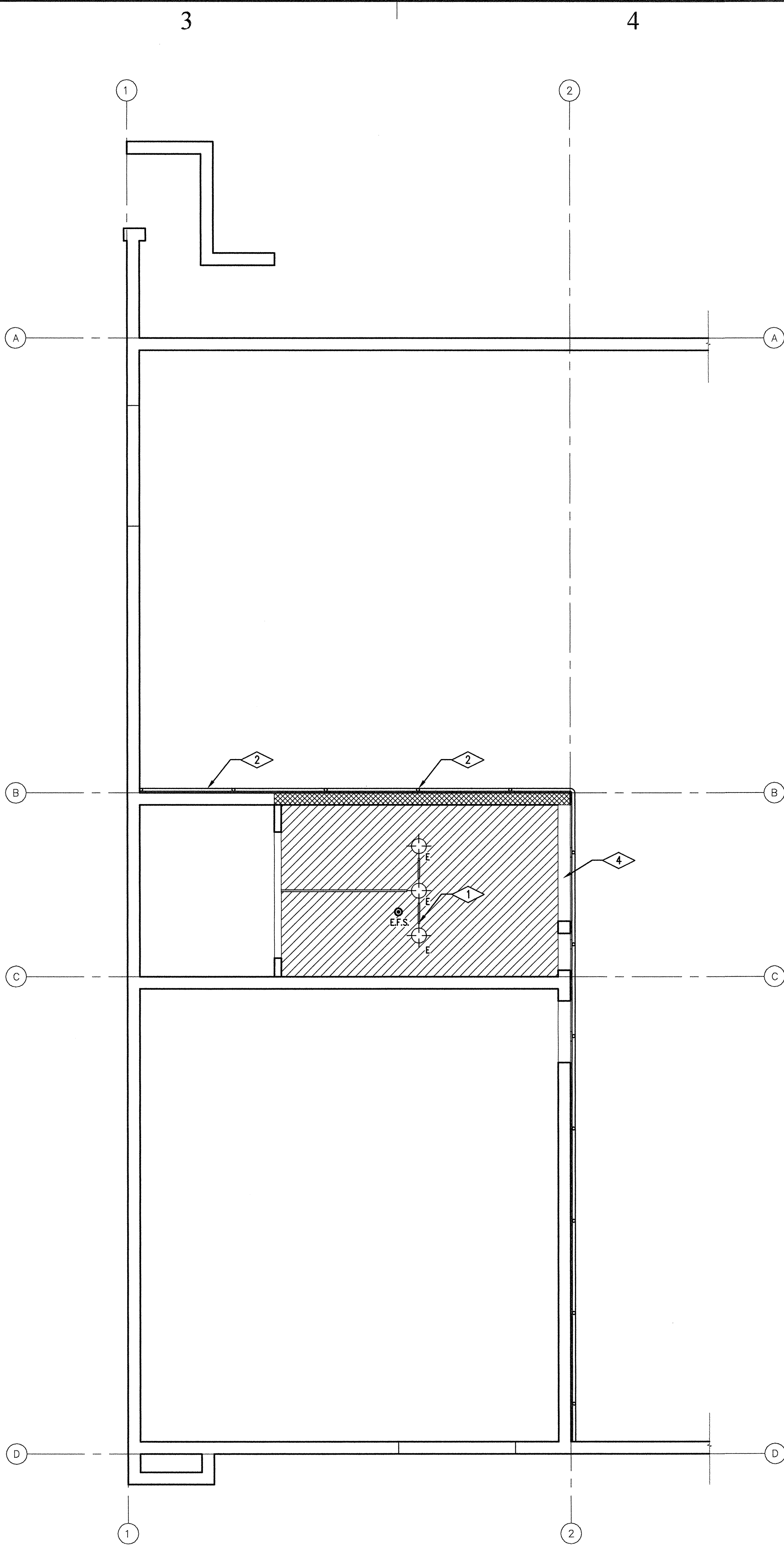
SHEET NUMBER

A-SP101

SHEET 3 OF 15



02
ADP101
SCALE 1/4" = 1'-0"
DEMOLITION FLOOR PLAN



01
ADP101
SCALE 1/4" = 1'-0"
REFLECTED CEILING DEMOLITION PLAN

DEMOLITION FLOOR PLAN
REFERENCE NOTES

- 1 DASHED LINE INDICATES LOCATION WHERE GENERAL CONTRACTOR SHALL SAW CUT EXISTING FLOOR SLAB.
- 2 GENERAL CONTRACTOR SHALL SAW CUT EXISTING MASONRY WALL AT LOCATION SHOWN.
- 3 EXISTING MASONRY BUILDING WALL NOT TO BE DISTURBED
- 4 GENERAL CONTRACTOR SHALL PROVIDE ADEQUATE SUPPORT FOR MASONRY ABOVE DOOR THAT IS TO REMAIN, SEE STRUCTURAL DRAWINGS ON CONNECTION BETWEEN EXISTING & NEW MASONRY ABOVE DOOR.
- 5 EXISTING DOOR & FRAME TO REMAIN
- 6 EXISTING PAINT BOOTH FILTER NOT TO BE DISTURBED

DEMO FLOOR PLAN
LEGEND

- HATCH PATTERN INDICATES EXISTING CONCRETE FLOOR SLAB TO BE REMOVED
- HATCH PATTERN INDICATES EXISTING MASONRY WALL TO BE REMOVED, SEE SECTIONS

GENERAL NOTES

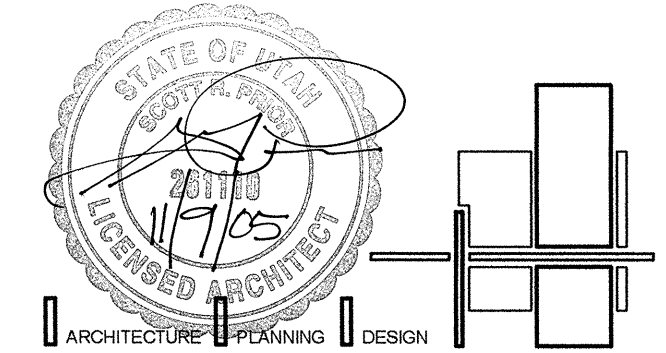
- 1. THE GENERAL CONTRACTOR SHALL REPLACE ALL CONCRETE FLOORING DAMAGED DURING DEMOLITION AND CONSTRUCTION
- 2. THE GENERAL CONTRACTOR SHALL REMOVE ALL OVER SPRAY FROM EXISTING PAINT BOOTH FLOOR SLAB PRIOR TO BEGINNING WORK.

DEMOLITION CEILING PLAN
REFERENCE NOTES

- 1 EXISTING SURFACE MOUNTED CONDUIT TO BE REMOVED
- 2 EXISTING GUARD RAILING ABOVE TO BE SUPPORTED DURING CONSTRUCTION. GENERAL CONTRACTOR SHALL ATTACH GUARD RAILING TO NEW STRUCTURAL MEMBER, SEE DETAIL
- 3 DASHED LINE INDICATES CENTER LINE OF 2X CONNECTED TO BOTTOM OF JOIST ABOVE. GENERAL CONTRACTOR SHALL CUT EXISTING GYPSUM BOARD AT CENTER LINE TO PROVIDE A SURFACE TO ATTACH NEW & EXISTING GYPSUM BOARD CEILING.
- 4 GENERAL CONTRACTOR SHALL PROVIDE ADEQUATE SUPPORT FOR MASONRY ABOVE DOOR THAT IS TO REMAIN, SEE STRUCTURAL DRAWINGS ON CONNECTION BETWEEN EXISTING & NEW MASONRY ABOVE DOOR.

DEMO CEILING PLAN
LEGEND

- HATCH PATTERN INDICATES EXISTING GYPSUM BOARD CEILING TO BE REMOVED. REMOVE CEILING BACK TO CENTERLINE OF CLOSEST EXISTING JOIST
- EXISTING EXPLOSION PROOF LIGHT FIXTURE TO BE REMOVED & REINSTALLED AS PER NEW CEILING PLAN
- E.F.S. EXISTING FIRE SPRINKLER HEAD TO BE REMOVED & REPLACED W/ NEW FIRE-SPRINKLER HEAD



BUILDING NAME:

UINTAH BASIN
APPLIED TECH.
COLLEGE

PROJECT TITLE:

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COLLEGE PAINT
BOOTH EXPANSION

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ISSUE TYPE: CONSTRUCTION DOCUMENTS		

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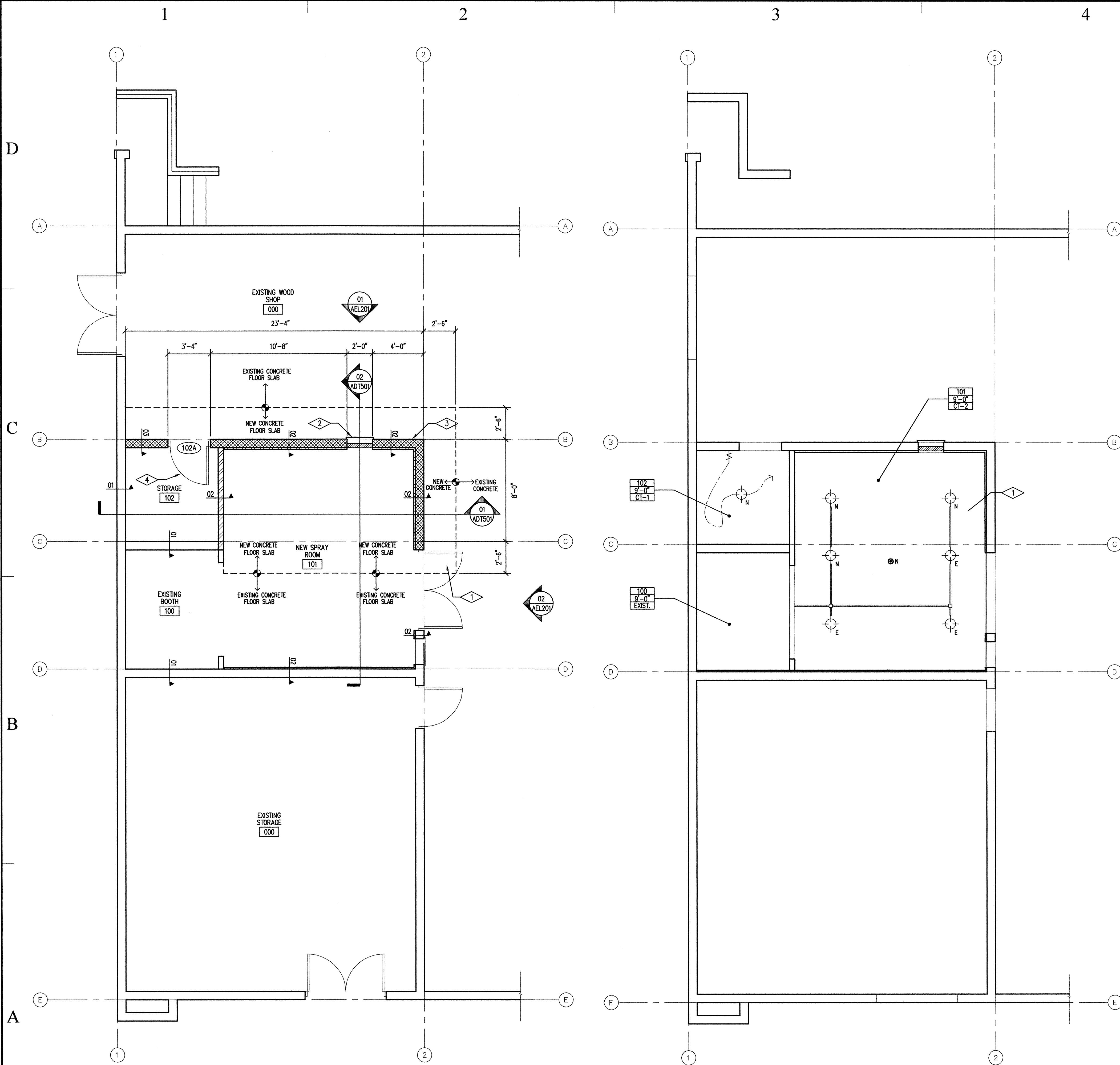
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SHEET TITLE

DEMOLITION FLOOR PLAN
AND REFLECTED CEILING
PLAN

SHEET NUMBER

A-DP101



FLOOR PLAN
REFERENCE NOTES

- 1 EXISTING HOLLOW METAL DOOR & FRAME TO REMAIN UNDISTURBED. DOOR & FRAME TO BE REPAINTED
- 2 NEW FILTER & FIRE DAMPER SYSTEM TO BE LOCATED AS SHOWN.
- 3 NEW ATLAS BRICK WALL, BRICK COLOR FINISH & SIZE TO MATCH EXISTING
- 4 NEW DOOR, SEE SCHEDULE

FLOOR PLAN LEGEND

- 100A DOOR NUMBER
- ROOM NAME ROOM NAME AND NUMBER
- 01 WALL TYPE

REFLECTED CEILING PLAN
REFERENCE NOTES

- 1 CEILING CONSTRUCTION AS PER GYPSUM ASSOCIATION GA FILE NO. WP 6800

REFLECTED CEILING PLAN
GENERAL NOTES

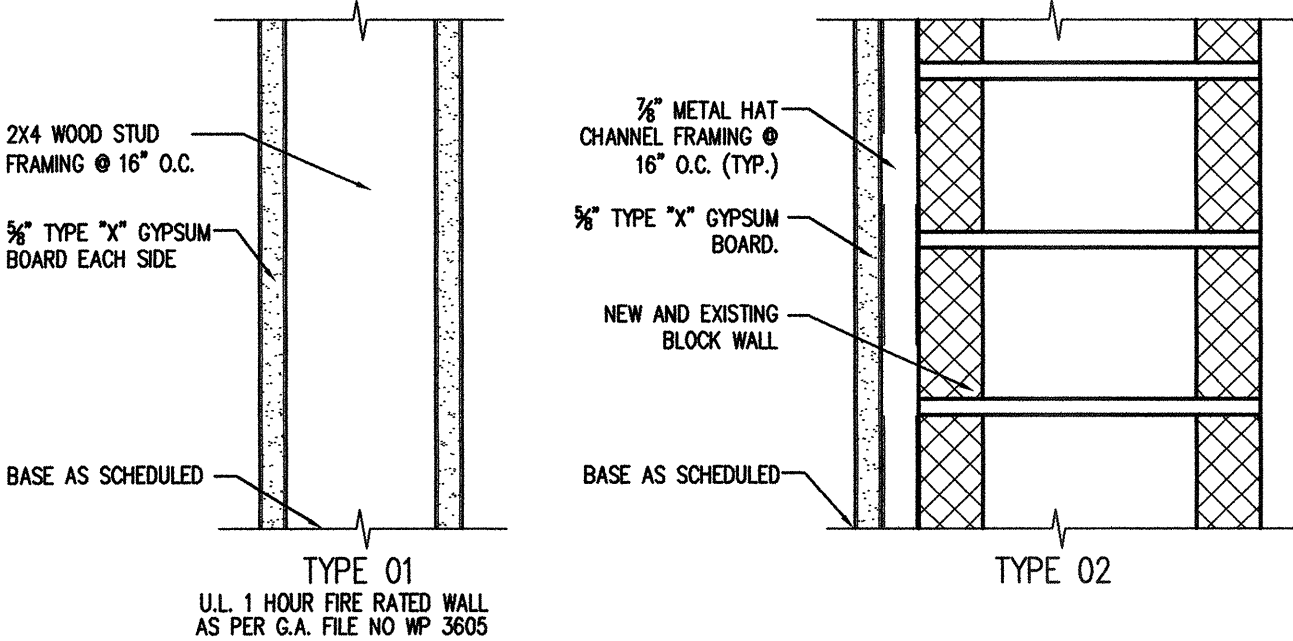
- 1. ALL SWITCHES, OUTLETS, CONDUITS, JUNCTION BOXES, LIGHT FIXTURES, ETC. TO BE EXPLOSION PROOF
- 2. ALL ELECTRICAL EQUIPMENT & LIGHTING IS SHOWN FOR SCHEMATIC PURPOSES ONLY. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO PROVIDE DESIGN BUILD ELECTRICAL USING EXISTING ELECTRICAL SYSTEMS. IT IS THE GENERAL CONTRACTOR'S RESPONSIBILITY TO HAVE THEIR ELECTRICAL SUBCONTRACTOR REVIEW THE PROJECT PRIOR TO BIDDING. ALL ELECTRICAL MUST MEET CURRENT NEC CRITERIA.
- 3. GENERAL CONTRACTOR SHALL REVIEW VOLTAGE OF EXISTING LIGHTING PRIOR TO BIDDING TO DETERMINE IF EXISTING LIGHTING IS 120 VOLT SYSTEM.
- 4. NEW CONDUIT FOR LIGHT FIXTURES TO BE SURFACE MOUNTED

CEILING PLAN LEGEND

- EXISTING EXPLOSION PROOF SURFACE MOUNTED LIGHT FIXTURE TO BE RELOCATED TO NEW LOCATION AS SHOWN
- NEW EXPLOSION PROOF LIGHT FIXTURE
- NEW EXPLOSION PROOF LIGHT SWITCH
- N NEW FIRE-SPRINKLER HEAD. GENERAL CONTRACTOR TO EXTEND EXISTING LINE TO NEW LOCATION AS SHOWN. GENERAL CONTRACTOR SHALL VERIFY SPRINKLER HEAD TYPE REQUIRED FOR SPACE.

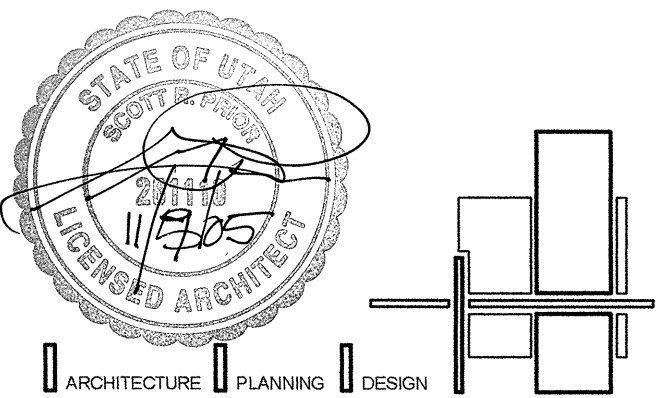
LIGHT FIXTURE SCHEDULE

SYMBOL	FIXTURE VOLTAGE	LAMPS #	LAMP TYPE	DESCRIPTION, MANUFACTURER AND CAT. NO.
	120	1	INCANDESCENT 150 WATT	EXPLOSION PROOF, CEILING MOUNTED LIGHT FIXTURE. APPLETON ELECTRIC, A-51 SERIES GROUPS A&B WITH ALUMINUM GUARD



WALL TYPES

01 SCALE 3" = 1'-0"



GENERAL REQUIREMENTS

GENERAL CONDITIONS: THE GENERAL CONDITIONS, SUPPLEMENTARY GENERAL CONDITIONS, SPECIAL CONDITIONS, ALTERNATES AND ADDENDA, APPLICABLE DRAWINGS AND TECHNICAL SPECIFICATIONS SHALL APPLY TO ALL WORK UNDER THIS DIVISION.

STATE LICENSED CONTRACTOR - THE CONTRACTOR SHALL HAVE A CURRENT STATE ELECTRICAL CONTRACTING LICENSE.

SCOPE

THE WORK COVERED BY THESE DOCUMENTS CONSISTS OF FURNISHING ALL LABOR, MATERIALS, EQUIPMENT, SUPERVISION AND SERVICES NECESSARY TO FILL THE INTENT AND PURPOSE OF THE ELECTRICAL WORK SHOWN ON THE DRAWINGS AND HEREINAFTER SPECIFIED. ITEMS OMITTED FROM EITHER THE DRAWINGS OR SPECIFICATIONS, BUT SHOWN OR DESCRIBED IN THE OTHER, AND/OR ALL ITEM NECESSARY MAKE THE ELECTRICAL SYSTEM COMPLETE AND WORKABLE SHALL BE UNDERSTOOD TO FORM A PART OF THE WORK.

MATERIALS AND WORKMANSHIP

ALL MATERIALS AND EQUIPMENT FURNISHED AND INSTALLED SHALL BE OF THE HIGHEST QUALITY, NEW AND MEET THE STANDARDS OF NEMA, IPCEA, I.S. UL, NFPA, UBS, OSH, NEC, AND SHALL BEAR THEIR LABEL WHEREVER STANDARDS HAVE BEEN ESTABLISHED AND LABEL SERVICE IS AVAILABLE. WHERE MATERIALS AND EQUIPMENT ARE SPECIFIED BY MANUFACTURER'S NAME, THE TYPE AND QUALITY REQUIRED IS THEREBY DENOTED. THE ARCHITECT SHALL BE AFFORDED EVERY FACILITY DEEMED NECESSARY TO INSPECT AND EXAMINE THE MATERIALS AND APPARATUS BEING INSTALLED TO PROVE THEIR QUALITY, SKILL AND COMPETENCY OF WORKMANSHIP.

CODES- REGULATION AND PERMITS

IN THE INSTALLATION OF THIS WORK, COMPLY WITH THE REQUIREMENTS OF THE LAWS, ORDINANCES AND RULES OF THE STATE AND NATIONAL BOARD OF FIRE UNDERWRITERS, THE NATIONAL ELECTRICAL CODE, AND THE RULES AND REGULATIONS OF LOCAL ORDINANCES.

IF A CONFLICT OCCURS BETWEEN THESE RULES AND DOCUMENTS, THE RULES ARE TO GOVERN. THE CONTRACTOR ACCEPTS THIS RESPONSIBILITY UPON SUBMITTING HIS BID, AND NO EXTRA CHARGE WILL BE ALLOWED AFTER THE ELECTRICAL CONTRACT IS AWARDED. THIS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLYING WITH ANY REQUIREMENTS OF THE PLANS OR SPECIFICATIONS WHICH MAY BE IN EXCESS OF REQUIREMENTS OF THE HEREIN MENTIONED RULES AND NOT CONTRARY TO SAME. ALL MATERIALS AND EQUIPMENT INSTALLED, INCLUDING LIGHTING FIXTURES, SHALL HAVE BEEN TESTED AND APPROVED BY UNDERWRITER'S LABORATORY AND SHALL BE SE LABELED, UNLESS OTHERWISE APPROVED BY THE ARCHITECT.

ARCHITECTURAL AND MECHANICAL DOCUMENTS ARE CONSIDERED A PART OF THE ELECTRICAL DOCUMENTS INSOFAR AS THEY APPLY, AS IF REFERRED TO IN FULL.

SINCE THE DRAWINGS OF THE FLOOR AND CEILING INSTALLATION ARE MADE AT A SMALL SCALE, OUTLETS, DEVICES, EQUIPMENT, ETC., ARE INDICATED ONLY IN THEIR APPROXIMATE LOCATION, UNLESS DIMENSIONED. LOCATE OUTLETS AND APPARATUS SYMMETRICALLY ON FLOORS, WALL AND CEILING WHERE NOT DIMENSIONED, AND COORDINATE SUCH LOCATIONS WITH WORK OF OTHER TRADES TO PREVENT INTERFERENCES. ALL DIMENSIONS ON THE JOB SHALL BE VERIFIED. DO NOT SCALE THE ELECTRICAL DRAWINGS, BUT REFER TO THE ARCHITECTURAL AND MECHANICAL DRAWINGS FOR DIMENSIONS.

UPON COMPLETION OF THE INSTALLATION, FURNISH A SET OF "RECORD" DRAWINGS TO THE ARCHITECT CLEARLY MARKED WITH THE CHANGES AUTHORIZED DURING CONSTRUCTION. ALSO SUBMIT WARRANTIES, OPERATION AND MAINTENANCE DATA ON ALL ITEMS OF EQUIPMENT.

ALL ELECTRICAL WORK SHALL COMPLY WITH ALL REQUIREMENTS OF THE I.C.C. ELECTRICAL CODE REQUIREMENTS FOR SPRAY BOOTHS & SPRAY ROOMS.

STORAGE AND PROTECTION OF MATERIALS

PROVIDE STORAGE SPACE FOR MATERIALS AND APPARATUS AND ASSUME COMPLETE RESPONSIBILITY FOR ALL LOSSES DUE TO ANY CAUSE WHATSOEVER. IN NO CASE SHALL STORAGE INTERFERE WITH TRAFFIC CONDITIONS IN ANY PUBLIC THOROUGHFARE OR CONSTITUTE A HAZARD TO PERSONS IN THE VICINITY. PROTECT COMPLETED WORK, WORK UNDERWAY, AND APPARATUS AGAINST LOSS OR DAMAGE.

SHOP DRAWINGS

SHOP OR DETAIL DRAWINGS SHALL BE SUBMITTED IN QUADRUPLE TO THE ARCHITECT PRIOR TO INSTALLATION OF ANY EQUIPMENT WHEN SHOP DRAWINGS ARE REQUIRED, AS HEREINAFTER SPECIFIED.

CONTRACTOR SHALL PREPARE AND SUBMIT ANY DETAIL DRAWINGS AT ANY TIME SUCH DRAWINGS ARE DEEMED NECESSARY BY THE ARCHITECT AND SHALL OBTAIN WRITTEN APPROVAL OF SAME BEFORE PROCEEDING WITH THE INSTALLATION OF THE WORK.

SHOP DRAWINGS SHALL BE SUBMITTED IN PROPERLY BOUND AND INDEXED BROCHURES. LIGHTING FIXTURE BROCHURES SHALL INCLUDE FIXTURE TYPE NUMBERS, MANUFACTURER, AND CATALOG NUMBERS. SPECIAL FEATURES NOT NORMALLY INCLUDED AS STANDARD, SHALL BE LABELED.

TESTING

CONTRACTOR SHALL TEST THE SYSTEM IN THE PRESENCE OF THE PROJECT MANAGER OR HIS DESIGNATED REPRESENTATIVE, AND DEMONSTRATE ALL EQUIPMENT AS WORKING AND OPERATING. ALL GROUNDINGS, OPENS, SHORTS OR OTHER DEFECTS SHALL BE RECTIFIED AT NO EXTRA COST TO THE OWNER BEFORE ACCEPTANCE AND PAYMENT.

GUARANTEE

THE ENTIRE ELECTRICAL SYSTEM INSTALLED UNDER THIS CONTRACT SHALL BE LEFT IN PROPER WORKING ORDER AND BE IN COMPLIANCE WITH THE DRAWINGS, SPECIFICATIONS AND/OR AUTHORIZED CHANGES TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE.

WITHOUT ADDITIONAL CHARGE, REPLACE ANY WORK OR MATERIALS WHICH DEVELOP DEFECTS, EXCEPT FROM ORDINARY WEAR AND TEAR, WITHIN ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. EXCEPTION: INCANDESCENT AND FLUORESCENT LAMPS, WHICH SHALL BE GUARANTEED FOR A PERIOD OF TWO MONTHS FROM ACCEPTANCE OF THE INSTALLATION BY THE OWNER OR HIS AGENT. A WRITTEN GUARANTEE COVERING THE ABOVE PROVISIONS SHALL BE SIGNED AND DELIVERED TO THE ARCHITECT AFTER THE PROJECT HAS FINAL ACCEPTANCE BY THE INSPECTING AUTHORITY.

TEMPORARY FACILITIES

PROVIDE, FOR USE OF OTHER TRADES DURING CONSTRUCTION PERIOD, REQUIRED TEMPORARY ELECTRICAL POWER, COMPLETE WITH REQUIRED MAIN BREAKER, SWITCH PANEL, METER, POLES, CONDUCTORS, ETC. SEE DIVISION 2.

AT COMPLETION OF WORK, OR WHEN SO ORDERED BY ARCHITECT OR CONTRACTOR, REMOVE FROM SITE ALL PARTS OF TEMPORARY ELECTRICAL SERVICES, LEAVING NO DISCERNIBLE SCARS. CONTRACTOR MAY CONNECT AND USE LIGHTING FIXTURES AS DESIGNATED BY ARCHITECT FOR LIGHTING DURING CONSTRUCTION. REPLACE BULBS AND OTHER PARTS OF LIGHTING FIXTURES DAMAGES OR BURNED OUT DURING SUCH USE AT COMPLETION OF WORK AT NO ADDITIONAL COST TO OWNER.

SYSTEMS

SYSTEM IS 120/240 VOLTS, SINGULAR PHASE, 3-WIRE, 60 Hz.

GROUNDING

THE NEUTRAL CONDUCTOR AND CABINET, CONDUITS, APPLIANCES, EQUIPMENT, SHALL BE BONDED TO THE GROUNDING SYSTEM IN ACCORDANCE WITH REQUIREMENTS OF THE NATIONAL ELECTRIC CODE.

CONDUIT SYSTEMS

ELECTRICAL METALLIC TUBING SHALL BE USED WHERE SIZES 4" AND SMALLER ARE REQUIRED, EXCEPT WHERE INSTALLED IN EARTH, CONCRETE SLABS ADJACENT TO EARTH, OR IN LOCATIONS WHERE SUBJECT TO MECHANICAL INJURY. IN ALL SUCH CASES, POLYVNYL CHLORIDE CONDUIT SHALL BE USED. TUBING MAY BE USED IN SLABS ABOVE GRADE LEVEL.

INTERMEDIATE METALLIC TUBING SYSTEMS SHALL UTILIZE RAIN TIGHT COMPRESSION CONNECTORS OR SET SCREW TYPE FITTINGS THROUGHOUT. CRIMPON INDENTER TYPE FITTINGS WILL NOT BE ACCEPTABLE. PRECAUTION SHALL BE EXERCISED TO PREVENT ACCUMULATION OF WATER, DIRT, OR CONCRETE IN THE CONDUITS DURING THE EXECUTION OF THE WORK.

CONDUITS IN WHICH WATER OR FOREIGN MATTER HAS BEEN PERMITTED TO ACCUMULATE SHALL BE THOROUGHLY CLEANED OR THE CONDUIT RUNS REPLACED WHERE SUCH ACCUMULATION CANNOT BE REMOVED BY METHODS APPROVED BY THE ARCHITECT. NO WIRE SHALL BE INSTALLED UNTIL WORK WHICH MIGHT CAUSE DAMAGE TO THE WIRE OR CONDUIT HAD BEEN COMPLETED. CONDUIT WHICH HAS BEEN CRUSHED OR DEFORMED IN ANY MANNER SHALL NOT BE INSTALLED. CONDUIT RUNS SHALL BE KEPT A MINIMUM DISTANCE OF 6 INCHES FROM HOT WATER AND STEAM PIPES.

CONDUIT, TUBING, AND BOXES SHALL BE SUPPORTED IN AN APPROVED MANNER BY MEANS OF EXPANSION SHIELDS OR EMBEDDED SUPPORTS IN CONCRETE OR SOLID MASONRY, TOGGLE BOLTS ON HOLLOW MASONRY UNITS, WOOD SCREWS ON WOOD AND METAL SCREWS ON METAL. WOODEN PLUGS INSERTED IN CONCRETE OR MASONRY UNITS SHALL NOT BE USED AS A BASE FOR FASTENING CONDUITS, TUBING, BOXES, CABINETS, ETC.

ALL RACEWAYS 3/4" AND LARGER SHALL UTILIZE OZ TYPE "A" INSULATING BRUSHING AT CABINET AND OUTLETS.

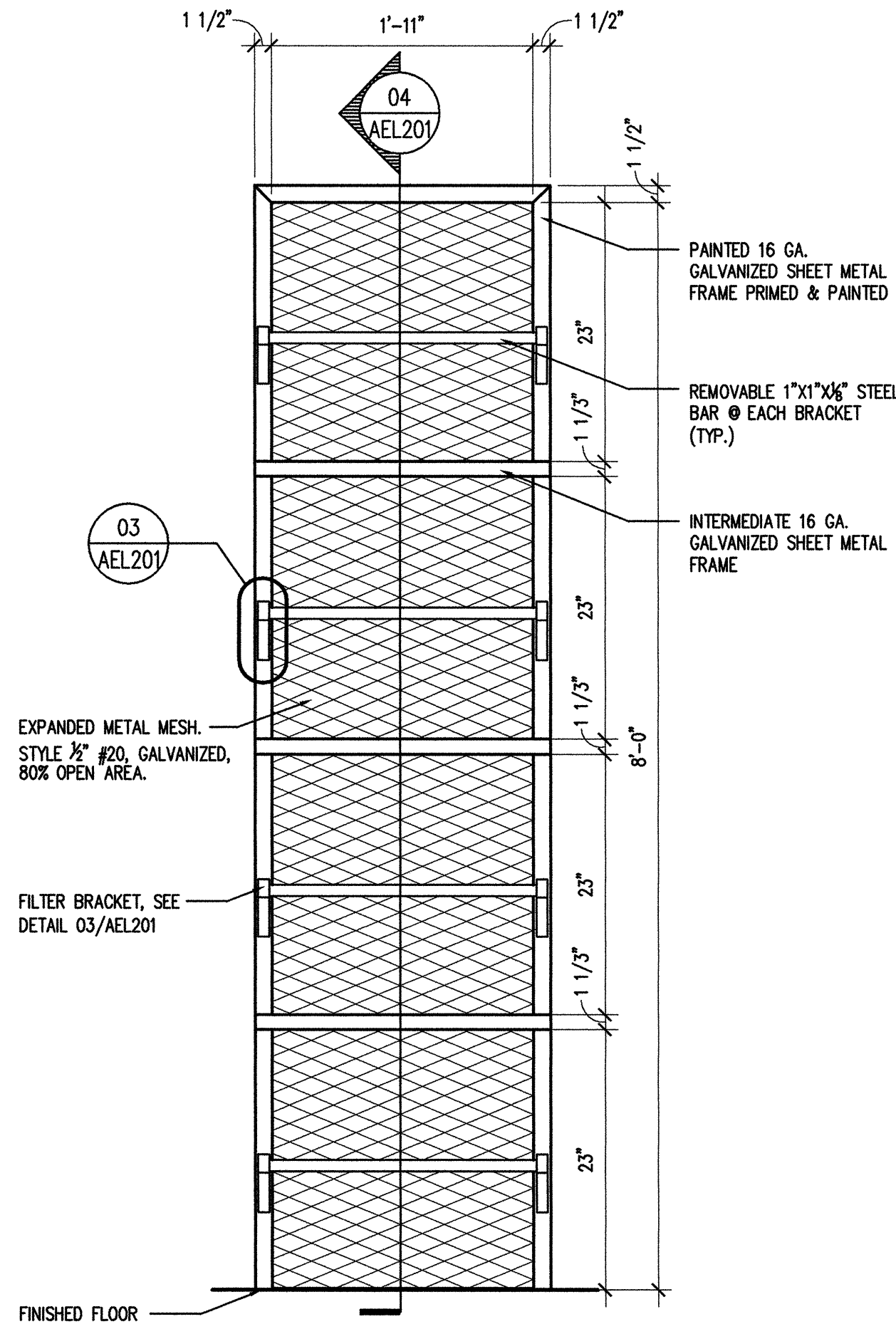
RACEWAY ENTERING OUTLETS OF CABINETS SHALL HAVE DOUBLE LOCK NUTS APPLIED FOR GROUNDING PURPOSES AND THEN INSULATING BRUSHING APPLIED OVER LOCK NUT.

ALL EMPTY CONDUITS SHALL HAVE A 200 POUND NYLON PULL WIRE.

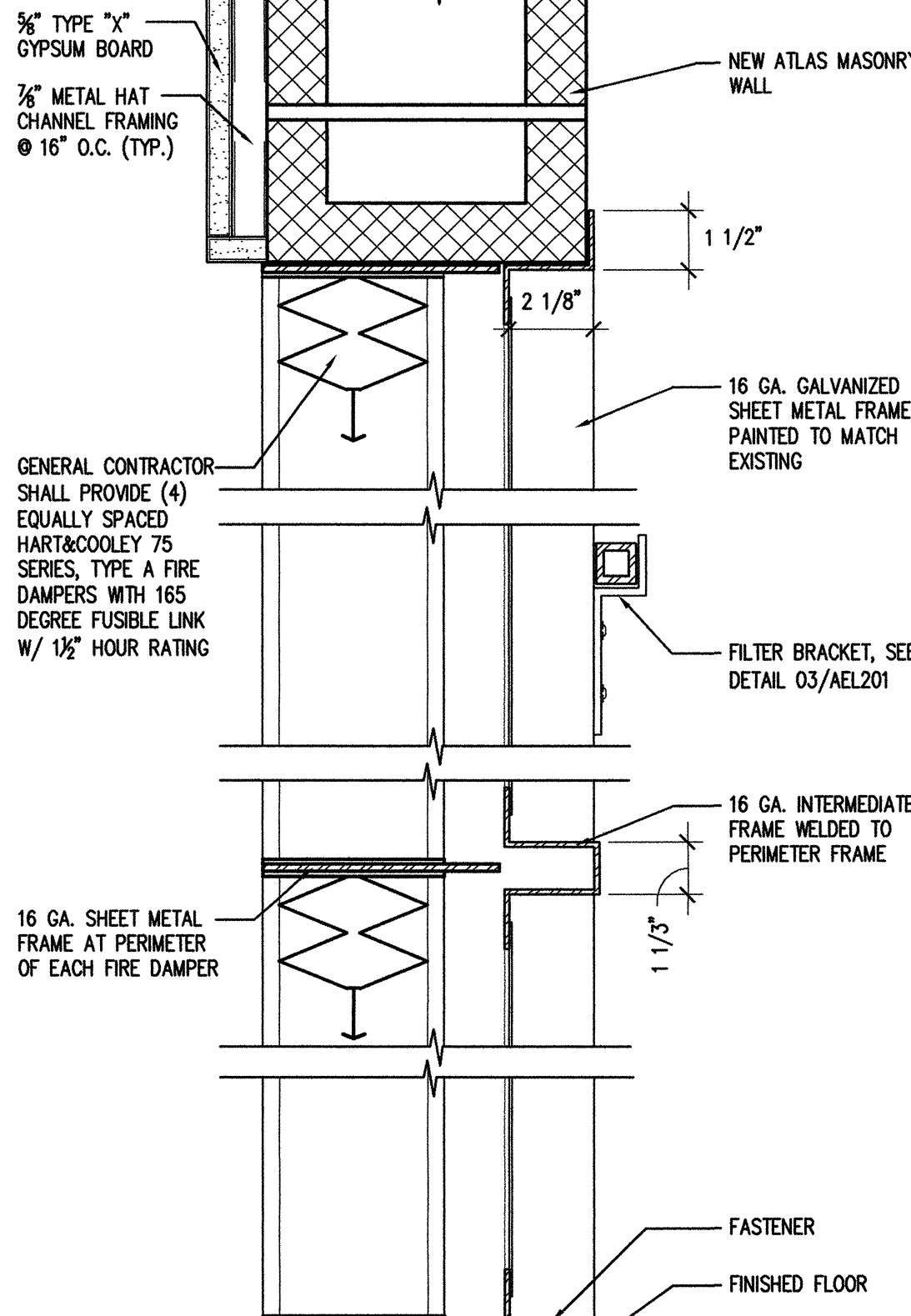
CONDUCTORS

CONDUCTORS FOR FEEDERS AND BRANCH CIRCUITS, UNLESS NOTED OTHERWISE, SHALL BE COPPER. INSULATION SHALL BE TYPE THW. NEUTRAL CONDUCTORS SHALL BE THE SIZES INDICATED ON THE RISER DIAGRAM. SIZES SMALLER THAN #12 AWG SHALL NOTE BE USED IN BRANCH CIRCUITS. SIZES #8 AND LARGER SHALL BE STANDARD.

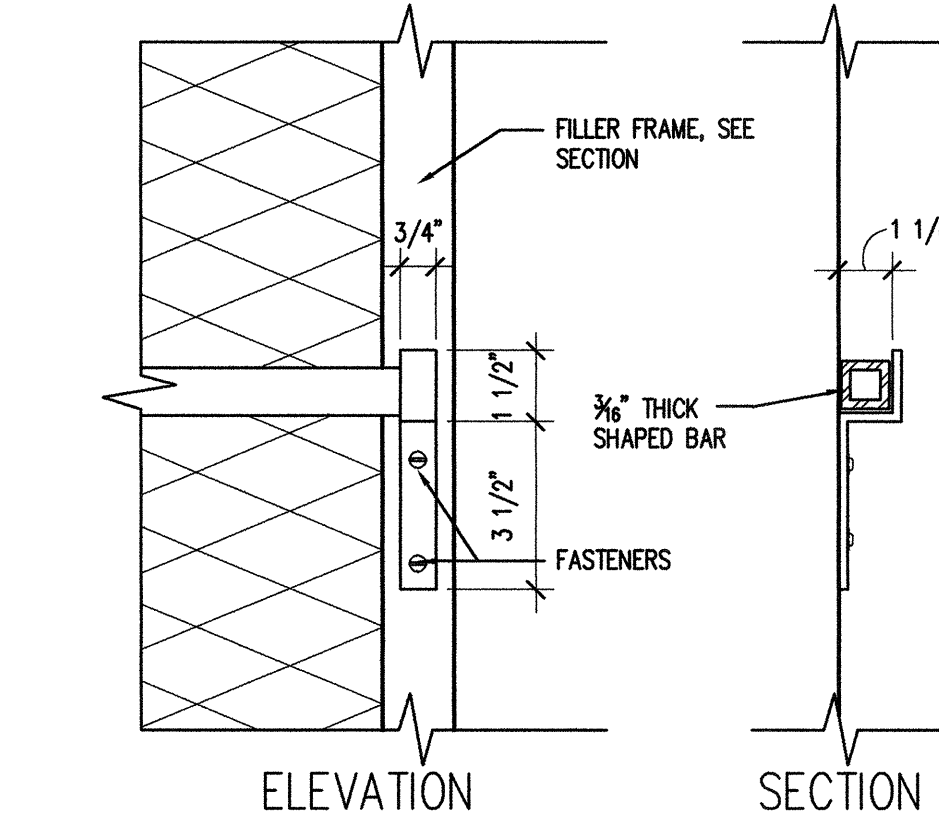
PHASE A - BLACK
PHASE B - RED
NEUTRAL - WHITE
GROUND - GREEN



05 AEL201 FILTER ELEVATION SCALE 1" = 1'-0"



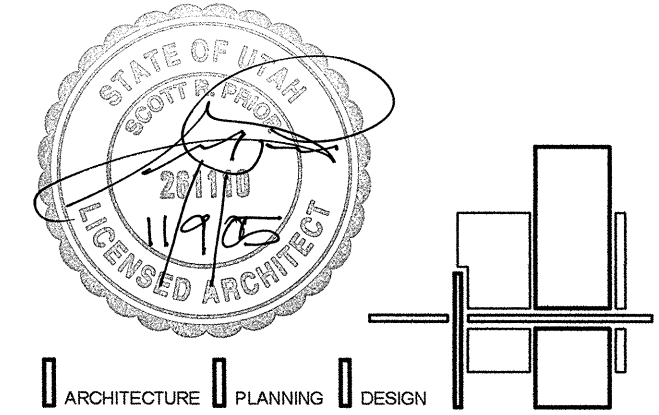
04 AEL201 FILTER DETAIL SCALE 3" = 1'-0"



03 AEL201 BRACKET DETAIL SCALE 3" = 1'-0"

REFERENCE NOTES

- EXISTING HVAC SYSTEM TO REMAIN UNDISTURBED
- NEW 8" ATLAS BRICK WALL, BRICK COLOR FINISH & SIZE TO MATCH EXISTING
- 1X12 PREMIUM GRADE POPLAR WOOD TRIM TO BE PRIMED AND PAINTED TO MATCH EXISTING
- EXISTING HANDRAIL TO BE REMOVED AND REATTACHED TO NEW STRUCTURAL MEMBER, SEE SECTION
- EXISTING AIR FILTER OPENING
- NEW FILTER TO BE LOCATED IN MASONRY WALL AS PER ADD ALTERNATE #1, SEE DETAILS & SPECIFICATION
- EXISTING HOLLOW METAL DOOR & FRAME TO BE PAINTED EACH SIDE
- FINISH FLOOR
- EXISTING BUILDING EXTERIOR WALL
- FINISH TOP OF 1"x12" W/ FINISH TRIM TO MATCH EXISTING
- BULLNOSE ATLAS BRICK AT CORNER
- NEW 1 HOUR FIRE RATED SHAFT ENCLOSURE GYPSUM BOARD WALL, WALL TO BE CONSTRUCTED AS PER DETAIL 08/ADT501 GA FILE NO. WP6800
- NEW 36"x48" FIRE RATED ACCESS DOOR, ACUDOR PRODUCTS INC. DOOR TYPE FBS060 OR PRE APPROVED EQUAL BY OTHERS.
- PARAPET BEYOND
- EXISTING ROOF SYSTEM & STRUCTURAL SYSTEM
- DASHED LINES INDICATE EXISTING PAINT BOOTH EXHAUST DUCT.



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SHEET TITLE

PARTIAL
ELEVATION AND
ELECTRICAL NOTES

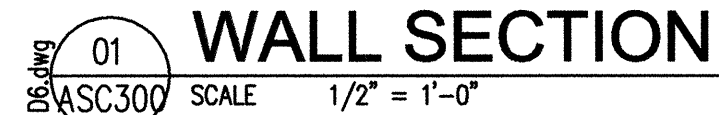
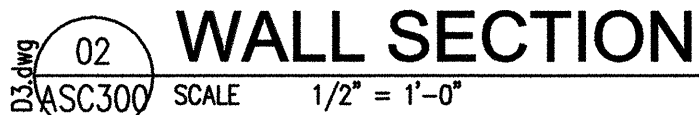
SHEET NUMBER

A-EL201

SHEET 6 OF 15

- 1 EXISTING MASONRY WALL
- 2 NEW MASONRY WALL TO MATCH EXISTING MASONRY
- 3 CONTRACTOR SHALL CUT CONCRETE AT THIS LOCATION, SEE FLOOR PLAN
- 4 NEW CONCRETE SLAB
- 5 EXISTING CONCRETE SLAB
- 6 EXISTING STRUCTURE
- 7 NEW JOISTS, SEE STRUCTURAL
- 8 GUELUAM BEAM TO BE INSTALLED IN PLACE OF REMOVED WALL
- 9 GUARDRAIL IN THIS LOCATION SHALL BE REMOVED FROM EXISTING MASONRY WALL AND REATTACHED TO GUELUAM. CONTRACTOR SHALL NOTCH PLYWOOD TO FIT AROUND GUARDRAIL
- 10 EXISTING GUARDRAIL
- 11 NEW 2X4 STUD WALL WITH $\frac{3}{8}$ " TYPE "X" GYP. BOARD ON BOTH SIDES
- 12 NEW DOOR BEYOND
- 13 CEILING CONSTRUCTION AS PER GYPSUM ASSOCIATION GA FILE NO. WP 6800
- 14 NEW $\frac{3}{4}$ " T&G PLYWOOD SHEATHING

1. --



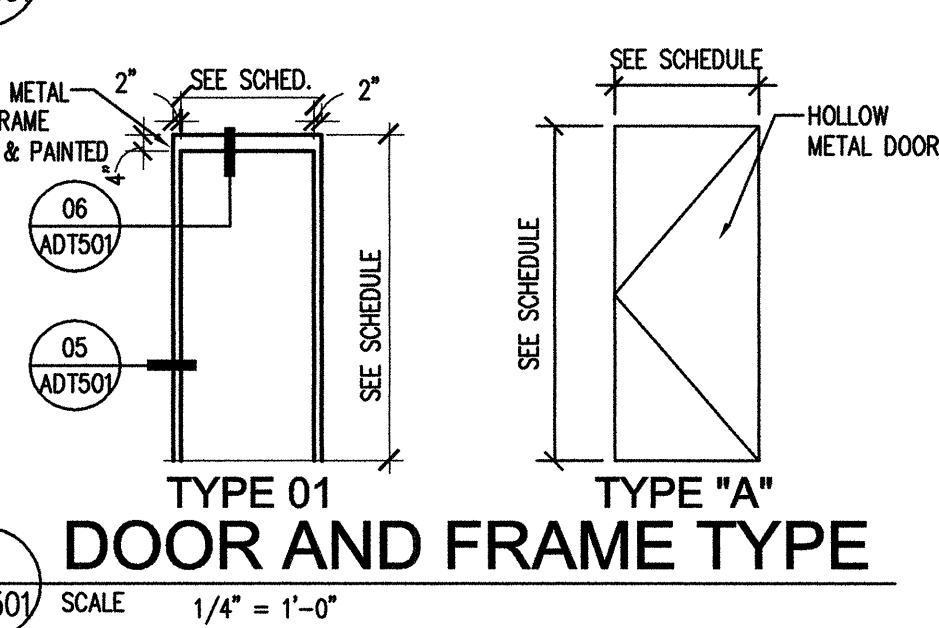
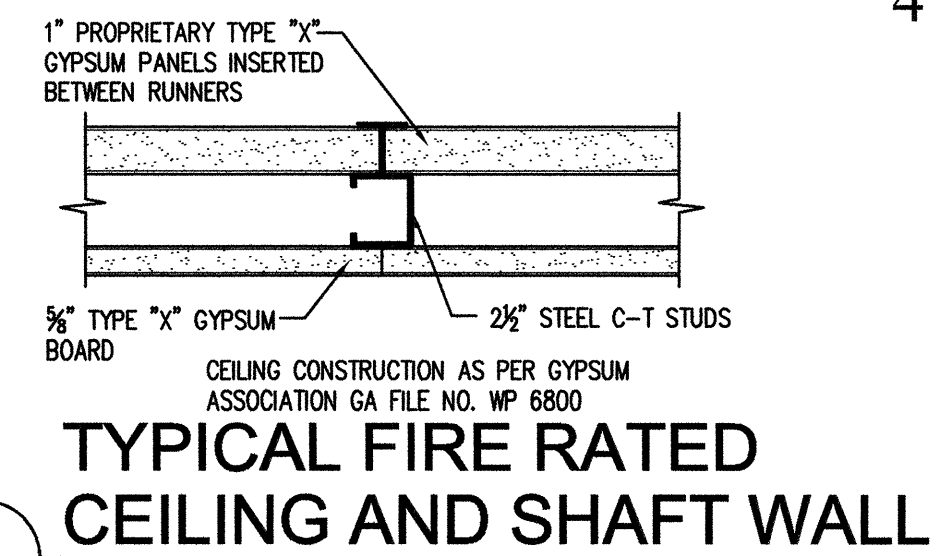
ROOM FINISH SCHEDULE										
ROOM NO.	ROOM NAME	FLOOR	BASE	WALLS				CEILING		NOTES
				NORTH	EAST	SOUTH	WEST	TYPE	HEIGHT	
100	EXISTING BOOTH	F1	-	W4	W4	W4	W4	CT-3	9'-0"	
101	NEW SPRAY ROOM	F1	B1	W2	W2	W2	W2	CT-2	9'-0"	
102	STORAGE	F1	B1	W1	W1	W3	W2	CT-1	9'-0"	

DOOR AND FRAME SCHEDULE																
DOOR	SINGLE/PAIR	DOOR					FRAME							HARDWARE SET	FIRE RATING DOOR & FRAME	NOTES
		SIZE		TYPE	MATL	FINISH	DEPTH	TYPE	MATL	FINISH	DETAIL					
		WxH	DEPTH								HEAD	JAMB	THRSH			
102A	S	3'-0" x 7'-0"	1 3/4"	A	H.M.	PAINT	5 3/4"	O1	HM	PAINT	06/ADT501	05/ADT501	—	01	NONE	

DOOR 102A HARDWARE SCHEDULE - HW SET 01			
3	EA	HINGE	5BBL 4.5X4.5
1	EA	STOREROOM LOCK	ND80PD RHO
1	EA	KICK PLATE	8400 10"x2" LDW
1	EA	WALL STOP	W S 401 CCV
1	EA	SURFACE CLOSER	4041 EDA
1	EA	SET SEALS	5020B

BASE TYPES	
B-1	4" COVED RUBBER BASE
FLOOR FINISHES	
F-1	SEALED CONCRETE
WALL FINISHES	
W-1	EXISTING MASONRY WALL
W-2	GYPSUM BOARD WALL PRIMED & PAINTED
W-3	NEW MASONRY WALL
W-4	EXISTING PAINT BOOTH WALL TO REMAIN UNDISTURBED

CEILING TYPES	
CT-1	5/8" TYPE "X" GYPSUM BOARD PRIMED AND PAINTED
CT-2	1 HR. FIRE RATED GYP. BOARD CEILING, SEE DETAIL 06/ADT501 GYPSUM BOARD CEILING TO BE PRIMED AND PAINTED.
CT-3	EXISTING PAINT BOOTH CEILING TO REMAIN UNDISTURBED



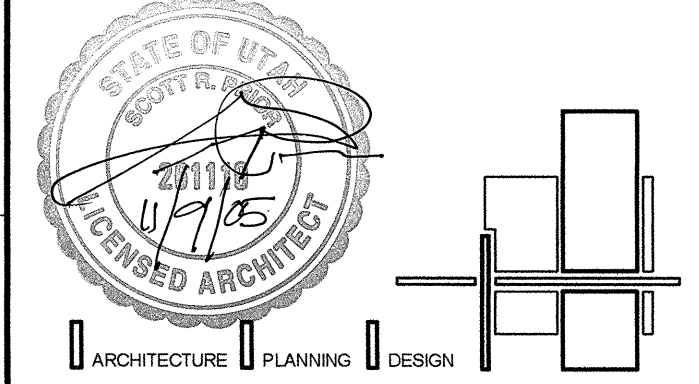
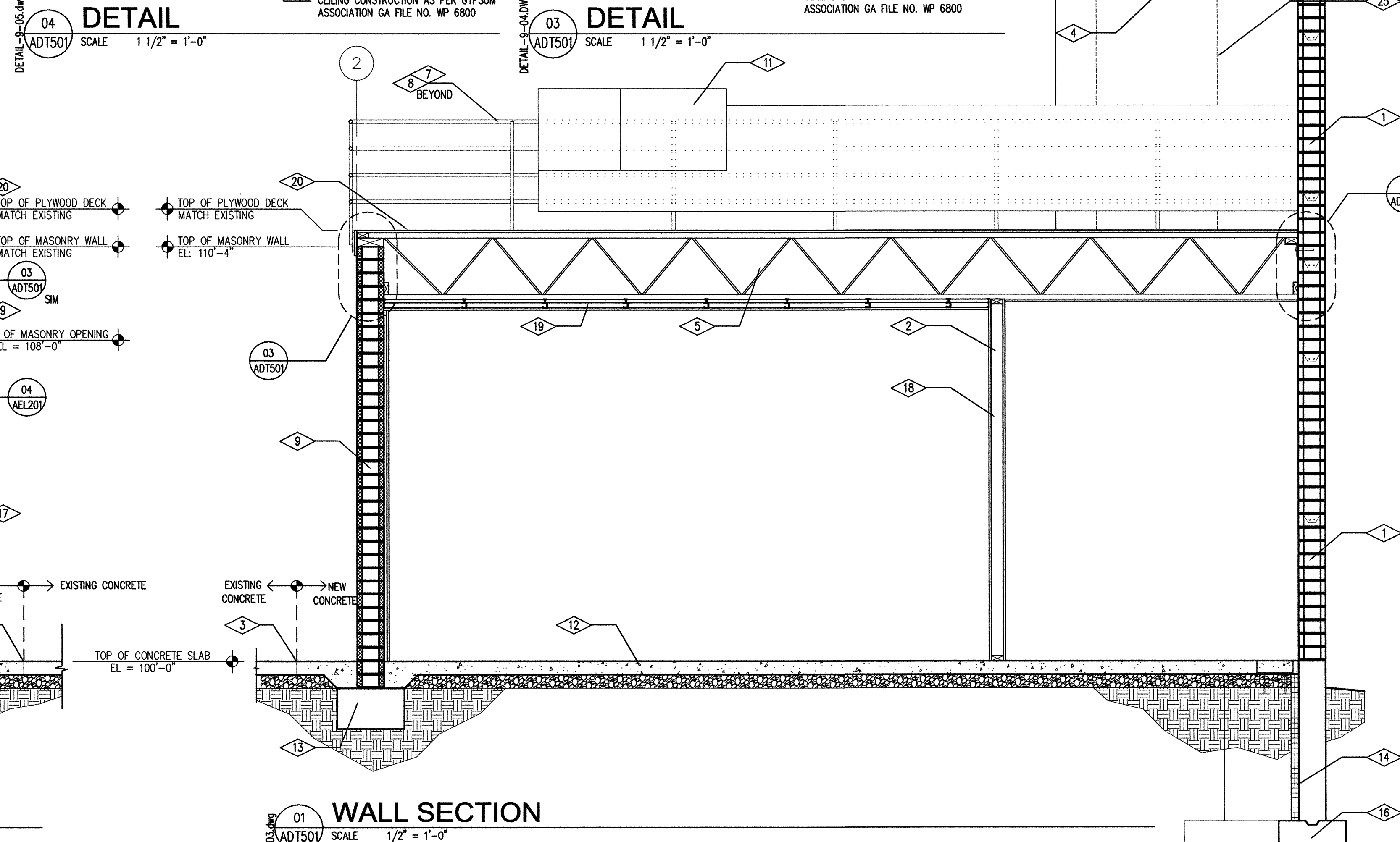
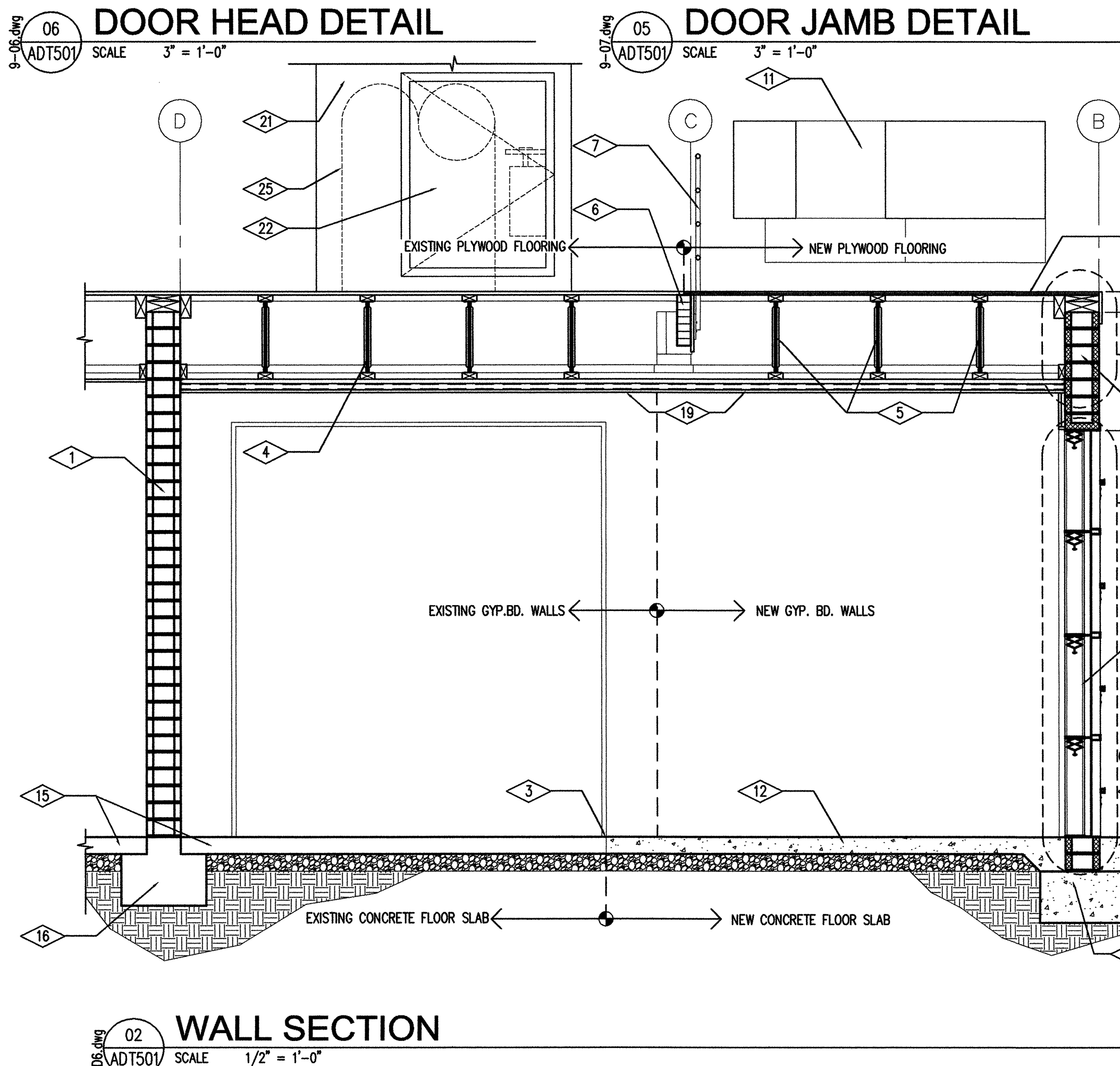
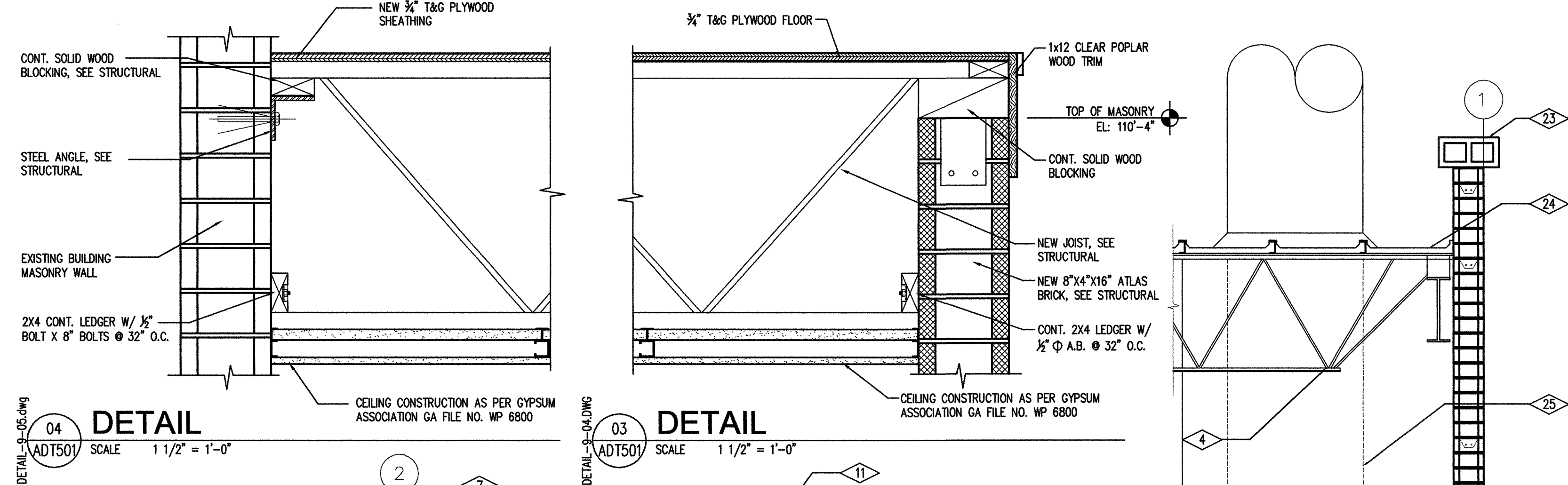
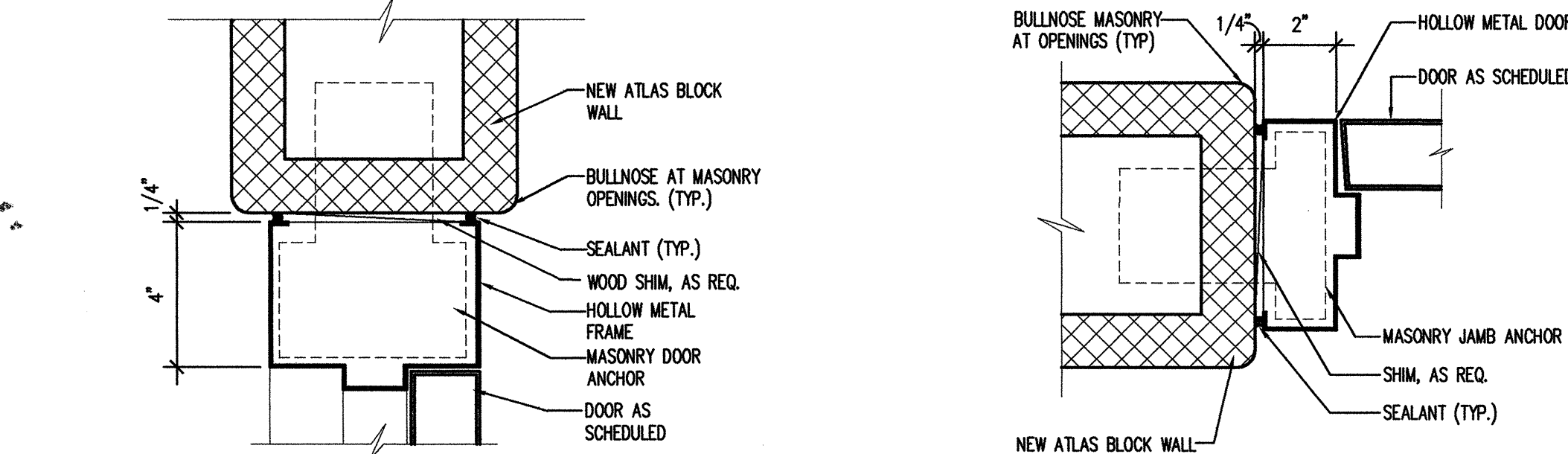
REFERENCE NOTES

- EXISTING BUILDING MASONRY WALL
- NEW WOOD 2X4 FRAMED WALL WITH 5/8" GYP. BRD. EACH SIDE
- CONTRACTOR SHALL CUT CONCRETE AT THIS LOCATION, SEE FLOOR PLAN
- EXISTING STRUCTURE
- NEW JOISTS, SEE STRUCTURAL
- WOOD BEAM TO BE INSTALLED IN PLACE OF EXISTING MASONRY WALL THAT WAS REMOVED
- GUARDRAIL IN THIS LOCATION SHALL BE REMOVED FROM EXISTING MASONRY WALL AND REATTACHED TO NEW STRUCTURAL BEAM. CONTRACTOR SHALL NOTCH PLYWOOD TO FIT AROUND GUARDRAIL
- EXISTING GUARDRAIL
- NEW ATLAS BRICK WALL, BRICK COLOR, FINISH & SIZE TO MATCH EXISTING
- NEW DOOR BEYOND
- EXISTING DUCTWORK TO REMAIN UNDISTURBED
- NEW 4" CONCRETE SLAB OVER 4" COMPACTED GRAVEL BASE
- NEW FOOTING & FOUNDATION WALL, SEE STRUCTURAL
- REPLACE PERIMETER INSULATION REMOVED OR DAMAGED ALONG THIS WALL
- EXISTING CONCRETE FLOOR SLAB
- EXISTING CONCRETE FOOTING & FOUNDATION SYSTEM
- NEW AIR FILTER AND FIRE DAMPER SYSTEM AS PER ADD ALTERNATE #1
- NEW HOLLOW METAL DOOR FRAME

- CEILING CONSTRUCTION AS PER GYPSUM ASSOCIATION GA FILE NO. WP 6800
- NEW 3/4" T&G PLYWOOD SHEATHING
- NEW 1 HOUR FIRE RATED SHAFT ENCLOSURE GYPSUM BOARD WALL. WALL TO BE CONSTRUCTED AS PER DETAIL 08/ADT501 GA FILE NO. WP6800
- NEW 36"x48" FIRE RATED ACCESS DOOR, ACUDOR PRODUCTS INC. DOOR TYPE FB5080 OR PRE APPROVED EQUAL BY OTHERS.
- PARAPET BEYOND
- EXISTING ROOF SYSTEM & STRUCTURAL SYSTEM
- DASHED LINES INDICATE EXISTING PAINT BOOTH EXHAUST DUCT.

GENERAL NOTES

- REFER TO FINISH SCHEDULE FOR ADDITIONAL FINISH NOTES.



GENERAL STRUCTURAL NOTES:

I. GENERAL:

- THE STRUCTURAL DRAWINGS SHOW THE COMPLETED PROJECT. DETAILS, SECTIONS, AND NOTES SHOWN ON THE DRAWINGS SHALL BE TYPICAL AND APPLY TO SIMILAR SITUATIONS ELSEWHERE UNLESS NOTED OR SHOWN OTHERWISE.
- CONTRACTOR SHALL COMPLY WITH ALL DIMENSIONS AND CONDITIONS ON CONTRACT DOCUMENTS AND AT THE SITE. ANY OMISSION OR CONFLICT SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER. IN CASE OF ANY CONFLICT FOLLOW THE MOST STRINGENT REQUIREMENT AS DIRECTED BY ARCHITECT/ENGINEER.
- SEE THE ARCHITECTURAL DRAWINGS FOR DOORS, WINDOWS, NON-BEARING INTERIOR AND EXTERIOR WALLS, RECESSES, DEPRESSIONS, ETC.
- CONTRACTOR SHALL PROVIDE ADEQUATE TEMPORARY BRACING FOR ALL PORTIONS OF THE BUILDING UNTIL THE ENTIRE STRUCTURE OF THE BUILDING IS COMPLETE.
- OBSERVATION VISITS TO THE SITE BY STRUCTURAL ENGINEER'S FIELD REPRESENTATIVES SHALL NOT BE CONSTRUED AS INSPECTION OR APPROVAL OF CONSTRUCTION.
- ANY ENGINEERING DESIGN PROVIDED BY OTHERS AND SUBMITTED FOR REVIEW SHALL BEAR THE SEAL AND SIGNATURE OF A STRUCTURAL ENGINEER REGISTERED IN UTAH.

II. DESIGN CRITERIA:

- BUILDING CODE: 2003 INTERNATIONAL BUILDING CODE (IBC) W/ AMENDMENTS
- LOADINGS:
 - ROOF SNOW LOAD = 30 PSF + SNOW DRIFT PER IBC
 - TYPICAL FLOOR LIVE LOAD = 100 PSF
 - WIND LOAD - 90 MPH WIND - EXPOSURE C
 - SEISMIC DESIGN CATEGORY: D
- FOUNDATION:
 - ALL EXTERIOR FOOTINGS ARE TO BE FOUNDED AT NOT LESS THAN 30" BELOW LOWEST ADJACENT FINISH FLOOR OR FINISH GRADE ONTO UNDISTURBED EXISTING SUBSOILS HAVING A MINIMUM NET BEARING CAPACITY OF 1500 PSF. ALL INTERIOR FOOTINGS ARE TO BE FOUNDED AT NOT LESS THAN 1'-0" BELOW LOWEST ADJACENT FINISH FLOOR ONTO SUBSOILS.

III. CONCRETE:

- ALL MATERIALS SHALL COMPLY WITH ACI 318 AND ACI 347 PUBLICATIONS AND APPLICABLE ASTM PUBLICATIONS.
- CONCRETE MATERIAL PROPERTIES: 28-DAY COMPRESSIVE STRENGTHS ARE TO BE 3000 PSI TYPICAL UNLESS NOTED OTHERWISE. DESIGN BASED ON 2500 PSI.
- CAST IN PLACE CONCRETE:
 - SPACING OF CONSTRUCTION JOINTS OR CONTROL JOINTS IN WALLS EXPOSED TO VIEW SHALL NOT EXCEED 40 FEET UNLESS SPECIFICALLY NOTED OTHERWISE ON THE DRAWINGS.
 - PROVIDE EXTRA REINFORCING AROUND ALL OPENINGS EXCEEDING 24 INCHES SQUARE OR ROUND IN ALL SLABS AND WALLS EQUAL TO TWO #5 BARS ON FOUR SIDES AND EXTEND TWO FEET BEYOND THE OPENING.
 - PROVIDE A 3/4" CHAMFER ON ALL EXPOSED CORNERS OF CONCRETE UNLESS NOTED OTHERWISE.
 - PROVIDE CLASS B LAP SPLICES FOR ALL REINFORCING UNLESS NOTED OTHERWISE.
 - PROVIDE ISOLATION JOINTS AROUND ALL COLUMNS AT ALL EXPOSED SLAB ON GRADE AREAS.

IV. REINFORCING STEEL:

- ALL BARS #4 AND LARGER TO BE ASTM A 615, GRADE 60. ALL #2 AND #3 BARS TO BE ASTM A 615, GRADE 40. DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH ACI-318, LATEST ADOPTION.
- ALL REINFORCING STEEL SHALL BE BENT, DETAILED AND CHAIRED AS PER "ACI MANUAL OF STANDARD PRACTICE FOR DETAILING REINFORCING CONCRETE STRUCTURES".
- WELDED WIRE FABRIC TO BE IN ACCORDANCE WITH ASTM A 185.
- ALL BARS INDICATED ON THE PLANS TO BE WELDED SHALL CONFORM TO ASTM A706 (GRADE 60).
- CONCRETE COVER REQUIREMENTS FOR DEFORMED BAR REINFORCING STEEL SHALL COMPLY WITH ACI 318, "BUILDING CODE REQUIREMENTS FOR REINFORCING CONCRETE".
 - CAST-IN-PLACE CONCRETE:
 - CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH: 3"
 - FORMED CONCRETE EXPOSED TO EARTH OR WEATHER:
 - #6 BARS AND LARGER: 2"
 - #5 BARS AND SMALLER: 1-1/2"
 - CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND:
 - SLABS, WALLS JOISTS: #11 BARS OR SMALLER: 3/4"
 - BEAMS, COLUMNS: PRIMARY REINFORCING, TIES, STIRRUPS, SPIRALS: 1-1/2"
- DETAILING: SUBMIT PLACING DRAWINGS PER ACI DETAILING MANUAL, ACI SP-66. FABRICATE ONLY AFTER REVIEW AND APPROVAL. REINFORCING BARS SHALL NOT BE WELDED UNLESS SPECIFICALLY SHOWN ON DRAWINGS.

- LAP SPLICE LENGTHS SHALL BE AS FOLLOWS:
 - 30 BAR DIAMETER FOR #3 AND #4 BARS
 - 40 BAR DIAMETER FOR #5 THROUGH #8 BARSDO NOT SPLICE STIRRUPS AND TIES
- DO NOT SPLICE VERTICAL BARS IN RETAINING WALLS UNLESS SPECIFICALLY SHOWN.
- ALL EMBEDMENTS AND DOWELS SHALL BE SECURELY TIED TO FORMWORK OR TO ADJACENT REINFORCING PRIOR TO THE PLACEMENT OF CONCRETE.

V. STRUCTURAL AND MISCELLANEOUS STEEL:

- MATERIAL PROPERTIES:
 - ALL SHAPES, PLATES, ANGLES, AND CHANNELS TO BE ASTM A-36 UNLESS NOTED OTHERWISE.
 - ALL WF SHAPES WEIGHING 84 POUNDS PER LINEAR FOOT OR LESS TO BE ASTM A 572, GRADE 50. ALL WF SHAPES WEIGHING MORE THAN 84 POUNDS PER LINEAR FOOT TO BE ASTM A 572, GRADE 50.
 - SQUARE OR RECTANGULAR TUBES TO BE ASTM A 500, GRADE B, Fy = 46 KSI.
 - ALL STEEL TO BE DETAILED, FABRICATED AND ERECTED IN ACCORDANCE WITH A.I.S.C. SPECIFICATIONS, LATEST ADOPTION.

B. WELDING:

- FOR STRUCTURAL STEEL TO BE IN ACCORDANCE WITH A.W.S. REQUIREMENTS FOR E70XX ELECTRODES.

C. BOLTS:

- ALL BOLTS TO BE 3/4" DIAMETER ASTM A 325-N UNLESS NOTED OTHERWISE.
- BOLTS, NUTS AND WASHERS SHALL NOT BE REUSED.
- ANCHOR BOLTS SHALL BE ASTM A 307 OR A 36.

VI. WOOD:

- DIMENSIONAL LUMBER: ALL TO BE GRADE STAMPED PER W.C.L.B. RULES.
 - ALL JOISTS, BEAMS, PLATES, HEADERS AND OTHER LUMBER TO BE D.FIR/LARCH #2 UNLESS OTHERWISE NOTED.
 - 2 X 4 SUB-PURLINS TO BE D.FIR/LARCH NO.1.
 - 2X 6 SUB-PURLINS TO BE D.FIR/LARCH NO.1.
 - PURLINS TO BE D.FIR DENSE #1.
 - 4X AND 6X POSTS TO BE D.FIR/LARCH NO.1.
 - WALL STUDS TO BE D.FIR/LARCH #2 GRADE OR BETTER.
- WOOD DECKING: FLOOR DECKING SHALL BE COMMERCIAL 2 X 6 (NOMINAL TONGUE AND GROOVE DECKING, HEM-FIR OR BETTER WITH A REPETITIVE Fd OF 1450 PSI MINIMUM.
- GLU-LAMS:
 - TO BE GRADE STAMPED PER A.I.T.C., D.FIR/LARCH COMBINATION 24F-V8 FOR CONTINUOUS SPANS AND D.FIR/LARCH COMBINATION 24F-V4 FOR SIMPLE SPANS. GLUED WITH WATERPROOF GLUE.

D. PLYWOOD:

- FLOOR SHEATHING TO BE STD 3/4" OSB OR C-C T&G WITH EXTERIOR GLUE, IDENTIFICATION INDEX 49/O. NAIL WITH 8d NAILS AT 6" O.C. AT ALL EDGE SUPPORTS AND WITH 8d NAILS AT 12" O.C. AT ALL INTERMEDIATE SUPPORTS UNLESS NOTED OTHERWISE.

E. PLYWOOD WEB JOISTS:

- TO BE DESIGNED, DETAILED AND FABRICATED BY TRUS-JOIST AND HAVE THE APPROVAL OF ICBO.
- JOISTS ARE TO BE DESIGNED FOR THE LIVE LOADS LISTED ABOVE AND FOR A SUPERIMPOSED DEAD LOAD OF NOT LESS THAN 15 PSF.
- DESIGN JOISTS FOR TWICE THE WEIGHT OF MECHANICAL UNITS INDICATED ON THE PLANS IN ACCORDANCE WITH AMERICAN INSTITUTE OF TIMBER CONSTRUCTION TECHNICAL NOTE #9. REVIEW ARCHITECTURAL AND MECHANICAL DRAWINGS FOR ADDITIONAL UNITS REQUIRED.

F. SPECIAL TREATMENTS (AMERICAN WOOD PRESERVERS INSTITUTE STANDARDS):

- ALL WOOD IN CONTACT WITH CONCRETE, MASONRY OR SOIL: PRESSURE TREAT WITH WOLMAN COA PRESERVATIVE OR EQUAL AS APPROVED BY THE ARCHITECT.
- FIRE RETARDANT: PRESSURE TREAT WITH DRICOR OR EQUAL AS APPROVED THE ARCHITECT.

G. WOOD NAILING SCHEDULE:

- JOIST TO SILL OR GIRDER, TOENAIL 3-8d
- BRIDGING TO JOIST, TOENAIL EACH END 2-8d
- 1"x6" SUBFLOOR OR LESS TO EACH JOIST FACE NAIL 2-8d
- WIDER THAN 1"x6" SUBFLOOR TO EACH JOIST, FACE NAIL 3-8d
- SUBFLOOR TO JOIST OR GIRDER, BLIND AND FACE NAIL 2-16d
- SOLE PLATE TO JOIST OR BLOCKING, FACE NAIL 2-16d
- TOP PLATE TO STUD, END NAIL 2-16d
- STUD TO SOLE PLATE TOENAIL 4-8d OR FACE NAIL 2-16d
- DOUBLE STUDS, FACE NAIL 16d @ 24" o.c.
- DOUBLED TOP PLATES, FACE NAIL 16d @ 16" o.c.
- TOP PLATES, LAPS AND INTERSECTIONS, FACE NAIL 2-16d
- CONTINUOUS HEADER, 2 PIECES 16d @ 16" o.c. ALONG 2 EDGES
- CEILING JOISTS TO PLATE, TOENAIL 3-8d
- CONTINUOUS HEADER TO STUD, TOENAIL 4-8d
- CEILING JOIST, LAPS OVER PARTITIONS FACE NAIL 3-16d
- CEILING JOIST TO PARALLEL RAFTERS FACE NAIL 3-16d
- RAFTER TO PLATE, TOENAIL 4-8d
- BRACE TO EACH STUD AND PLATE, FACE NAIL 2-8d
- 1"x8" SHEATHING OR LESS TO EACH BEARING, FACE NAIL 2-8d
- WIDER THAN 1"x8" SHEATHING TO EACH BEARING, FACE NAIL 3-8d
- BUILT UP CORNER STUDS 16d @ 24" o.c.
- BUILT-UP GIRDERS AND BEAMS 20d @ 32" o.c. AT TOP AND BOTTOM AND STAGGERED 2-20d AT EACH END & SPLICE
- PLANKS 2-16d AT EACH BEARING

VII. MISCELLANEOUS:

- GYPSUM WALLBOARD: FOR SHEAR WALLS TO BE STANDARD 1/2" GYPSUM WALLBOARD. NAIL WITH 5d COOLER NAILS AT 7" O.C. TO ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING.
- STUCCO: FOR SHEAR WALLS TO BE STANDARD 7/8" PORTLAND CEMENT PLASTER ON EXPANDED METAL OR WOVEN WIRE LATH. NAIL WITH NO.11 GAGE, 1 1/2" LONG, 7/16" HEAD NAILS OR NO.16 GAGE STAPLES WITH 7/8" LONG LEGS AT 8" O.C. TO ALL STUDS, TOP AND BOTTOM PLATES AND BLOCKING.

VIII. SPECIAL INSPECTION: SPECIAL INSPECTION IS REQUIRED IN ACCORDANCE WITH IBC SECTION 1701.

- FIELD WELDING IF APPLY.
- LEVEL TWO INSPECTION ON CMU UNITS.

IX. MASONRY:

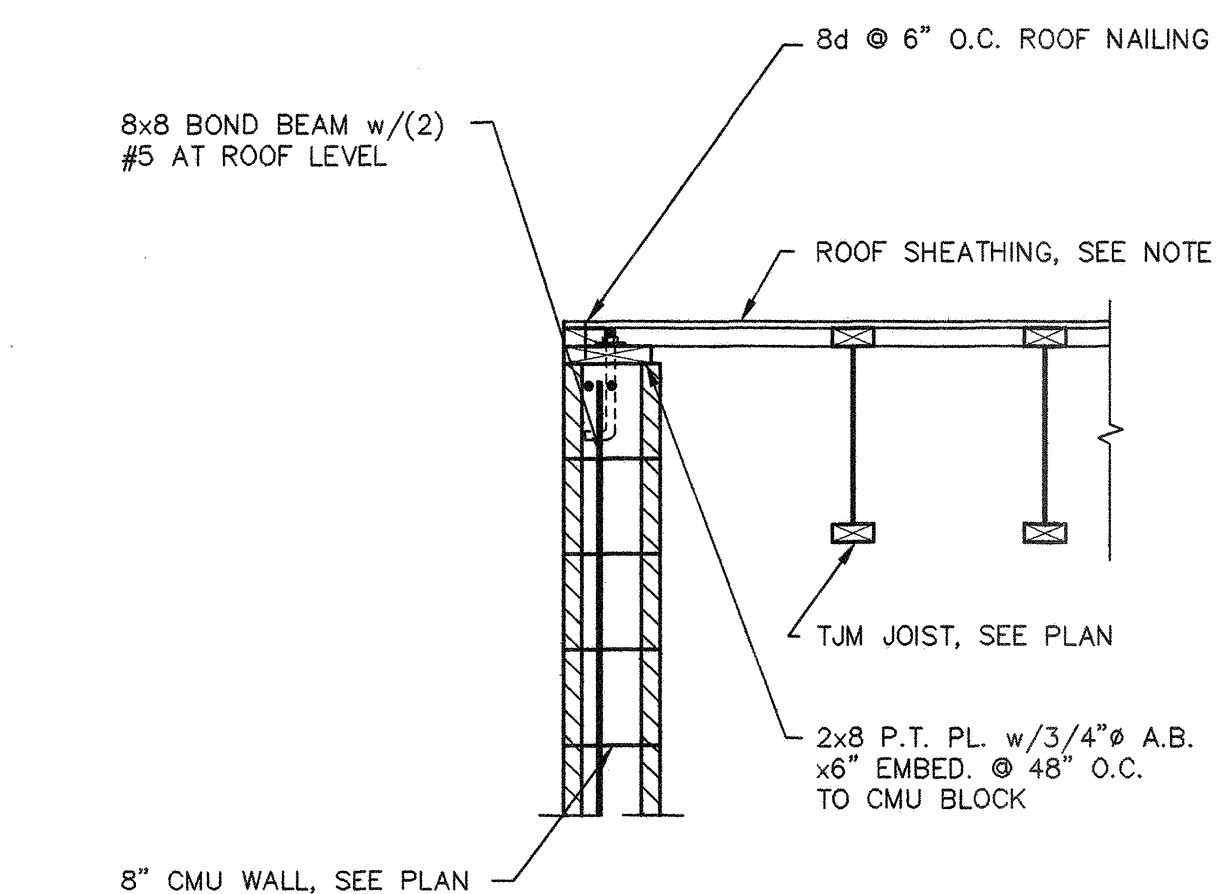
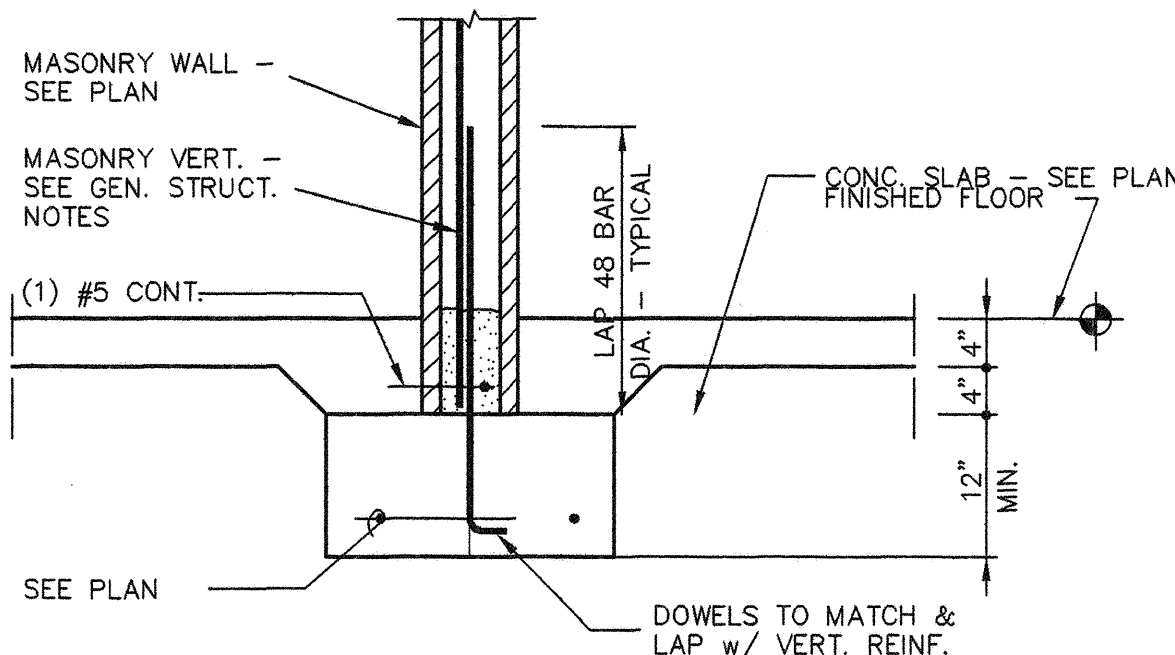
- GENERAL:
 - LIGHTWEIGHT HOLLOW CONCRETE MASONRY UNIT TO BE ASTM C 90, GRADE N-1 AND HAVE A MINIMUM UNIT STRENGTH OF 2800 PSI AND f'm OF 2000 PSI. MORTAR TO BE TYPE "S". GROUT FILL TO BE 2000 PSI AT 28 DAYS.
 - MASONRY DESIGN IS BASED ON VALUES WITH LEVEL 2 INSPECTION.
 - SEE CONCRETE FOR REQUIREMENTS FOR REINFORCING.

B. MASONRY REINFORCING:

- MINIMUM REINFORCING OF CONCRETE MASONRY UNIT WALLS:
 - ALL MASONRY WALLS SHALL BE REINFORCING AS FOLLOWS, UNLESS SHOWN OTHERWISE ON THE DRAWINGS
 - C.M.U. WALLS ARE TO HAVE #5 VERTICALS AT ALL CORNERS, ENDS, JAMBS, INTERSECTIONS AND BOTH SIDES OF CONTROL JOINTS, TYPICAL UNLESS NOTED OTHERWISE. ADDITIONAL VERTICAL REINFORCING SHOWN ON PLAN IS IN LIEU OF TYPICAL REINFORCING. PLACE ONE BAR PER CELL IN SOLID GROUT. EXTEND BARS A MINIMUM OF 30 BAR DIAMETERS BEYOND THE ROOF LEVEL ABOVE.
 - BUILDING WALLS ARE TO HAVE 2 #5 BARS CONTINUOUS IN A MINIMUM 8" DEEP BOND BEAM AT ALL ROOF LEVELS UNLESS NOTED OTHERWISE.
 - BUILDING WALLS ARE TO HAVE 1 #5 BAR CONTINUOUS IN A MINIMUM 8" DEEP BOND BEAM AT THE TOP OF ALL PARAPETS UNLESS NOTED OTHERWISE.
 - PROVIDE A MINIMUM OF 2 #5 BARS X (THE WIDTH OF THE OPENING PLUS 4'-0") IN A MINIMUM 8" DEEP BOND BEAM BELOW ALL WINDOW AND MECHANICAL OPENINGS UNLESS NOTED OTHERWISE.
- MASONRY LINTELS:
 - ALL REINFORCING IS TO EXTEND A MINIMUM OF 2'-0" BEYOND THE JAMB AND TO BE GROUTED SOLID FOR THE ENTIRE DEPTH INDICATED.
 - ALL CONCRETE MASONRY UNITS USED IN THE LENGTH ARE TO BE "OPEN-END" TYPE, TO INSURE FULLY GROUTED HEAD JOINTS.
 - ALL LINTELS ARE TO BE PROPERLY SHORED FOR THEIR WEIGHT PLUS ANY CONSTRUCTION LOADS AND Laterally BRACED TO PREVENT ANY LATERAL MOVEMENT FOR A MINIMUM OF 7 DAYS AFTER GROUTING, UNLESS NOTED OTHERWISE.

D. MASONRY GROUTING PROCEDURES:

- GROUTED MASONRY SHALL BE CONSTRUCTED IN SUCH A MANNER THAT ALL ELEMENTS OF THE MASONRY ACT TOGETHER AS A STRUCTURAL ELEMENT.
- PRIOR TO GROUTING, THE GROUT SPACE SHALL BE CLEANED SO THAT ALL SPACES TO BE FILLED WITH GROUT DO NOT CONTAIN MORTAR PROJECTIONS GREATER THAN 1/2" MORTAR DROPPINGS OR OTHER FOREIGN MATERIAL.
- GROUT MATERIALS AND WATER CONTENT SHALL BE CONTROLLED TO PROVIDE ADEQUATE FLUIDITY FOR PLACEMENT, WITHOUT SEGREGATION OF THE CONSTITUENTS AND SHALL BE MIXED THOROUGHLY. SEGREGATION OF THE GROUT MATERIALS AND DAMAGE TO THE MASONRY SHALL BE AVOIDED DURING THE GROUTING PROCESS.
- THE GROUTING OF ANY SECTION OF WALL SHALL BE COMPLETED IN ONE DAY WITH NO INTERRUPTIONS GREATER THAN ONE HOUR.
- BETWEEN GROUT POURS, A HORIZONTAL CONSTRUCTION JOINT SHALL BE FORMED BY STOPPING ALL WYTHES AT THE SAME ELEVATION AND WITH THE GROUT STOPPING A MINIMUM OF 1 1/2 INCHES BELOW A MORTAR JOINT. EXCEPT AT THE TOP OF THE WALL, WHERE BOND BEAMS OCCUR, STOP GROUT POUR A MINIMUM OF 1/2 INCH BELOW THE TOP OF THE MASONRY.
- ALL CELLS AND SPACES CONTAINING REINFORCING BARS SHALL BE FILLED WITH GROUT. GROUT SHALL BE PLACED SO THAT ALL SPACES TO BE GROUTED DO NOT CONTAIN VOIDS.
- GROUT SHALL BE CONSOLIDATED BY MECHANICAL VIBRATION DURING PLACING BEFORE LOSS OF PLASTICITY IN A MANNER TO FILL THE GROUT SPACE. GROUT POURS GREATER THAN 12 INCHES SHALL BE RECONSOLIDATED BY MECHANICAL VIBRATION TO MINIMIZE VOIDS DUE TO WATER LOSS. GROUT POURS 12 INCHES OR LESS IN HEIGHT SHALL BE MECHANICALLY VIBRATED, OR PUDDLED. WHERE GROUT POURS EXCEED 5 FEET, CLEANOUTS SHALL BE PROVIDED IN THE BOTTOM COURSE AT EVERY VERTICAL BAR LOCATION BUT SHALL NOT BE SPACED MORE THAN 32 INCHES ON CENTER FOR SOLID GROUTED MASONRY. GROUT SHALL BE PLACED IN A CONTINUOUS POUR NOT TO EXCEED 16 FEET IN HEIGHT, AND IN GROUT LIFTS NOT TO EXCEED 6 FEET.
- REINFORCING SHALL BE CONTINUOUS THE FULL HEIGHT OF THE GROUT POUR PLUS ANY REQUIRED LAP ABOVE. REINFORCEMENT SHALL BE SECURED AGAINST DISPLACEMENT PRIOR TO GROUTING BY WIRE POSITIONERS OR OTHER SUITABLE DEVICES AT INTERVALS NOT TO EXCEED 200 BAR DIAMETERS NOR 10 FEET.
- TOLERANCE FOR THE PLACEMENT OF STEEL IN WALLS AND FLEXURAL ELEMENTS SHALL BE PLUS OR MINUS 1/2 INCH FOR "D" EQUAL TO 8 INCHES OR LESS, PLUS OR MINUS ONE INCH FOR "D" EQUAL TO 24 INCHES OR LESS BUT GREATER THAN 8 INCHES, AND PLUS OR MINUS 1 1/4 INCH FOR "D" GREATER THAN 24 INCHES.



3

4

INTERIOR CMU WALL & FOOTING

4

5

State of Utah

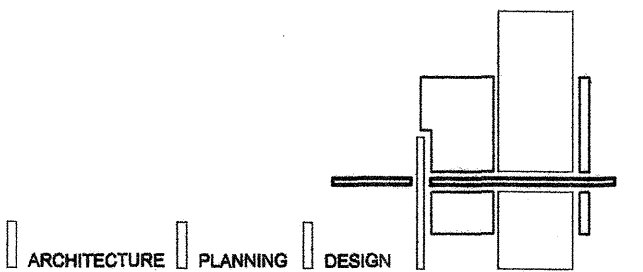
Department of Administrative Services

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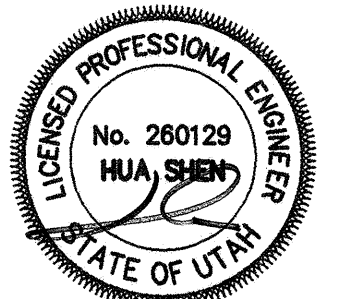
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BUILDING NAME:

**UINTAH BASIN
APPLIED TECH.
COLLEGE**



PROJECT TITLE:

**UINTAH BASIN
APPLIED TECH.
COLLEGE PAINT
BOOTH REMODEL**

Shen Engineers, Inc.
Structural/Seismic Consultants
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MARK DATE DESCRIPTION

ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: AUG. 1, 2005

DFCM PROJECT NO:
CAD PROJECT NO: SE05173
CAD DWG FILE:
DRAWN BY: BS
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SHEET TITLE

SHEET NUMBER

S-GN100

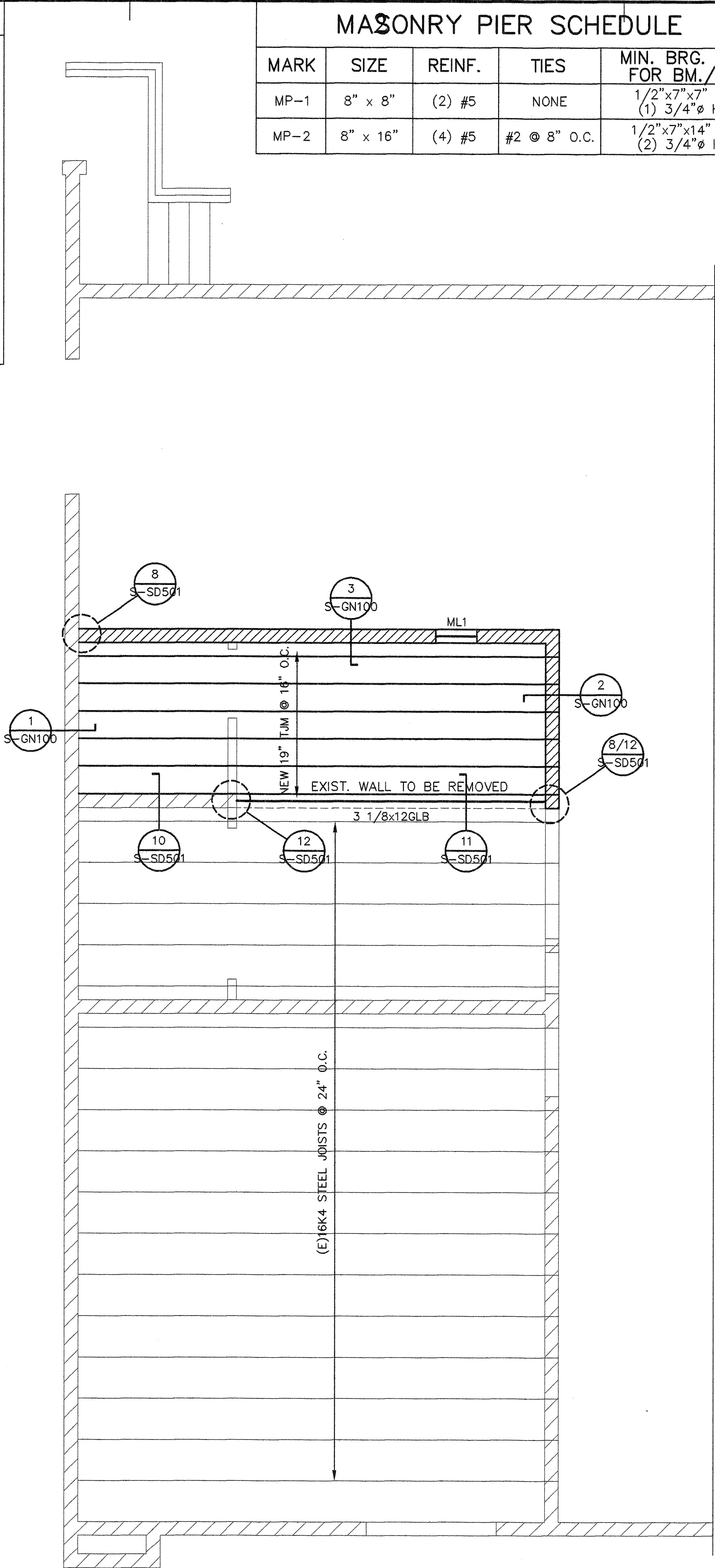
SHEET 8 OF 15

- FLOOR FRAMING PLAN NOTES:
- SEE TYPICAL DETAIL SHEET FOR:
 - GENERAL STRUCTURAL NOTES
 - HANGING CEILING, DUCTWORK OR OTHER ITEMS FROM THE ROOF METAL DECK IS NOT ALLOWED.
 - PROVIDE JOIST BRIDGING PER S.J.I.
 - ESTABLISH AND VERIFY ALL OPENINGS & INSERTS FOR MECHANICAL, ELECTRICAL & PLUMBING WITH THE APPROPRIATE TRADES, DRAWINGS AND SUBCONTRACTORS PRIOR TO CONSTRUCTION.
- JOIST & JOIST GIRDER DESIGNATIONS DO NOT INCLUDE MECHANICAL WEIGHTS. DESIGN JOISTS & JOIST GIRDERS @ MECH. UNITS TO SUPPORT WEIGHTS INDICATED @ ANY POINT WITHIN 5 FEET EITHER WAY ALONG THE SPAN.
- JOIST MANUF. TO ADJUST ALL JOIST SIZES AND DESIGN STRESSES AS REQUIRED BASED ON THE SPECIFIC UL RATING NOTED ON THE ARCHITECTURAL DRAWINGS.

TYPICAL FLOOR DECK:
3/4" APA RATED SHEATHING, SPAN RATING 40/20
SEE GENERAL STRUCTURAL NOTES--TYPICAL NAILING:
8d @ 6" O.C. AT ALL PANEL EDGES, SUPPORTED EDGES, AND ALL TOP OF SHEAR WALLS
8d @ 12" O.C. AT ALL PANEL FIELD
PLACE SHEATHING LONG-WISE ACROSS FRAMING, STAGGER END JOINTS. UNBLOCKED DIAPHRAGM.

PROVIDE 8x16 BOND BEAM w/(4)#5 HORIZ. CONT. AT FLOOR LEVEL TYP. U.N.O.

MASONRY PIER SCHEDULE				
MARK	SIZE	REINF.	TIES	MIN. BRG. PL SIZE FOR BM./GIRDER
MP-1	8" x 8"	(2) #5	NONE	1/2"x7"x7" PL. w/ (1) 3/4"Ø H.S. x5"
MP-2	8" x 16"	(4) #5	#2 @ 8" O.C.	1/2"x7"x14" PL. w/ (2) 3/4"Ø H.S. x5"



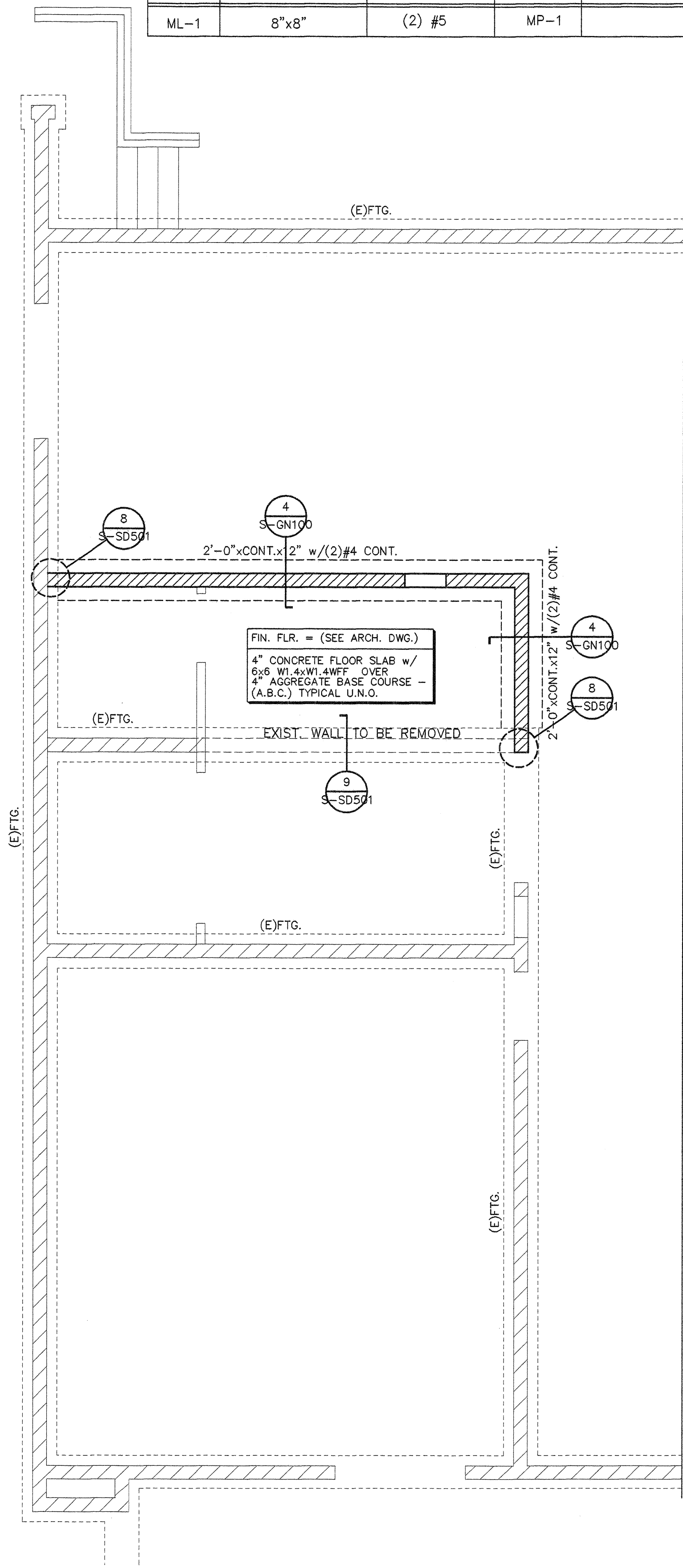
NEW FLOOR FRAMING PLAN
SCALE 1/4" = 1'-0"

MASONRY WALL SCHEDULE				
LEVEL II SPECIAL INSPECTION ON CMU TYP. F'm=2000 PSI				
MARK	WALL THICKNESS	VERT. REINF.	HORIZ. REINF.	REMARKS
MW1	8"	#5 @ 32" O.C.	#5 @ 48" O.C.	8"x16" MIN. w/ (4)#5 HORIZ. GROUT CELLS w/REBARS. TYP. FOR 8" CMU WALLS U.N.O.

1. TERMINATE HORIZ. REBARS AT WALL JOINTS TYP.
2. CONTINUE HORIZ. REBARS FOR BOND BEAM AT WALL JOINTS TYP.
3. SOLID GROUT ALL CELLS FOR WALLS UNDER FINISHED GRADE TYP.

3

MARK	SIZE OF LINTEL	REINFORCING	MIN. END BRG.	REMARKS
ML-1	8"x8"	(2) #5	MP-1	



NEW FOUNDATION PLAN
SCALE 1/4" = 1'-0"

- FOUNDATION PLAN NOTES:
- SEE GENERAL STRUCTURAL NOTES SHEET AND STANDARD CONCRETE DETAIL SHEET FOR:
 - GENERAL STRUCTURAL NOTES
 - TYPICAL EXCAVATION ADJACENT TO FOOTING
 - TYPICAL SLAB JOINT DETAILS
 - TYPICAL STEPPED FOOTING
 - WS - DENOTES CONCRETE WALL STEP.
 - F-1 - DENOTES FOOTING MARK - SEE FOOTING SCHEDULE.
 - K.C.J. - DENOTES KEYED CONSTR. JOINT - SEE STANDARD DETAIL.
 - C.J. - DENOTES CONTROL JOINT - SEE STANDARD DETAIL.
 - F-----S - DENOTES FOOTING STEP, SEE DETAIL TYPICAL.
 - CONTRACTOR TO VERIFY ALL DIMENSIONS AND ELEVATIONS WITH ARCHITECTURAL DRAWINGS PRIOR TO CONSTRUCTION. SEE ARCHITECTURAL FOR ALL DIMENSIONS. SLAB SLOPES & DEPRESSIONS NOT NOTED.
 - ALL SLABS ON GRADE ARE TO BE JOINTED AT NO MORE THAN 15'-0" EACH WAY USING JOINTS AS PER STANDARD DETAIL. IN ADDITION NO SECTION OF CONCRETE SHALL HAVE AN ASPECT RATIO OF GREATER THAN 1 1/2:1. PROVIDE (2) #4 x 4'-0" MID-HEIGHT SLAB BARS ADJACENT TO ALL DISCONTINUOUS JOINT LOCATIONS. ALL COLUMN ISOLATION JOINT CORNERS ARE TO BE INTERSECTED BY A SLAB JOINT OR REINFORCED WITH SLAB BARS PER ABOVE. SUBMIT COMPLETE JOINT LAYOUT PLAN TO THE ARCHITECT FOR PRIOR REVIEW.

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ARCHITECTURE PLANNING DESIGN

BUILDING NAME:

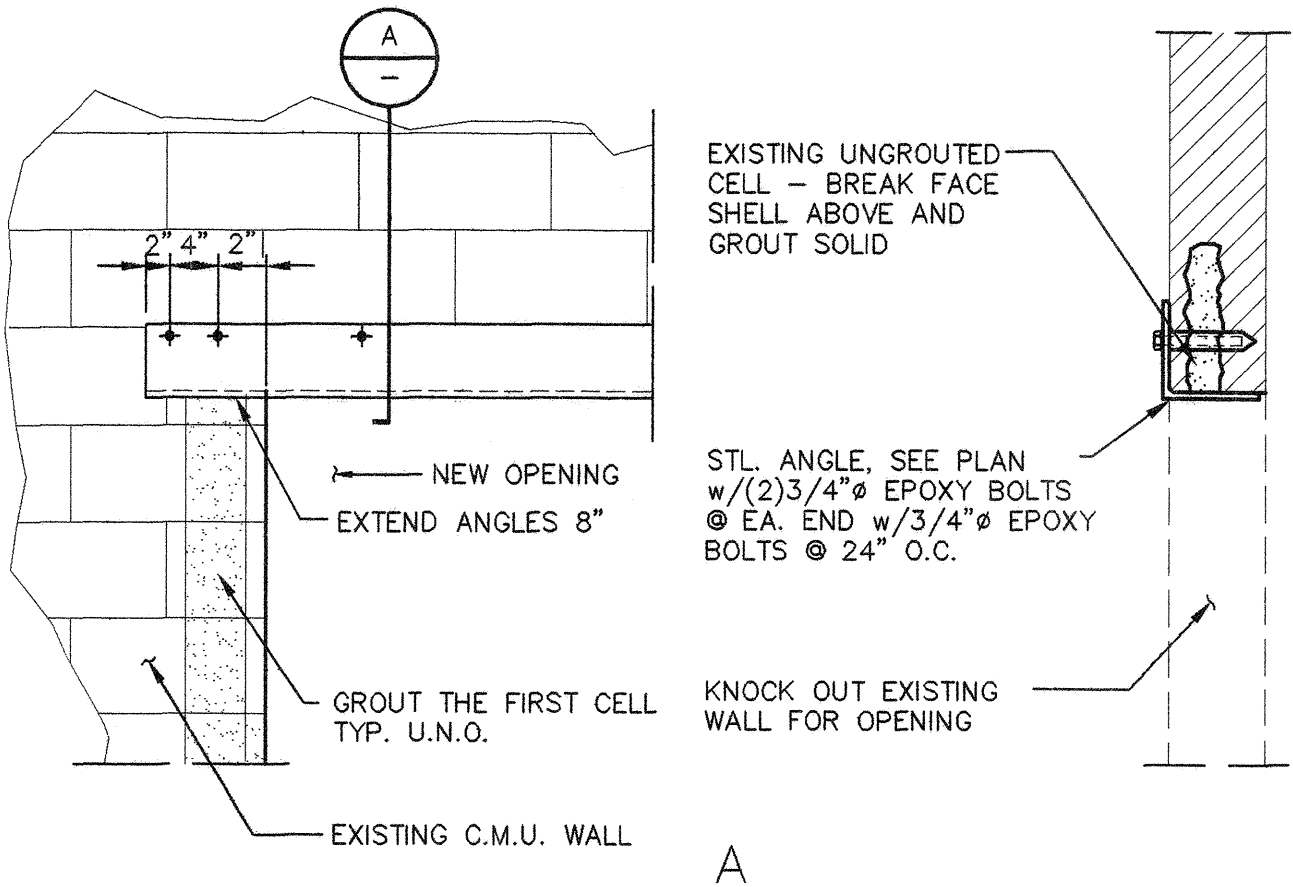
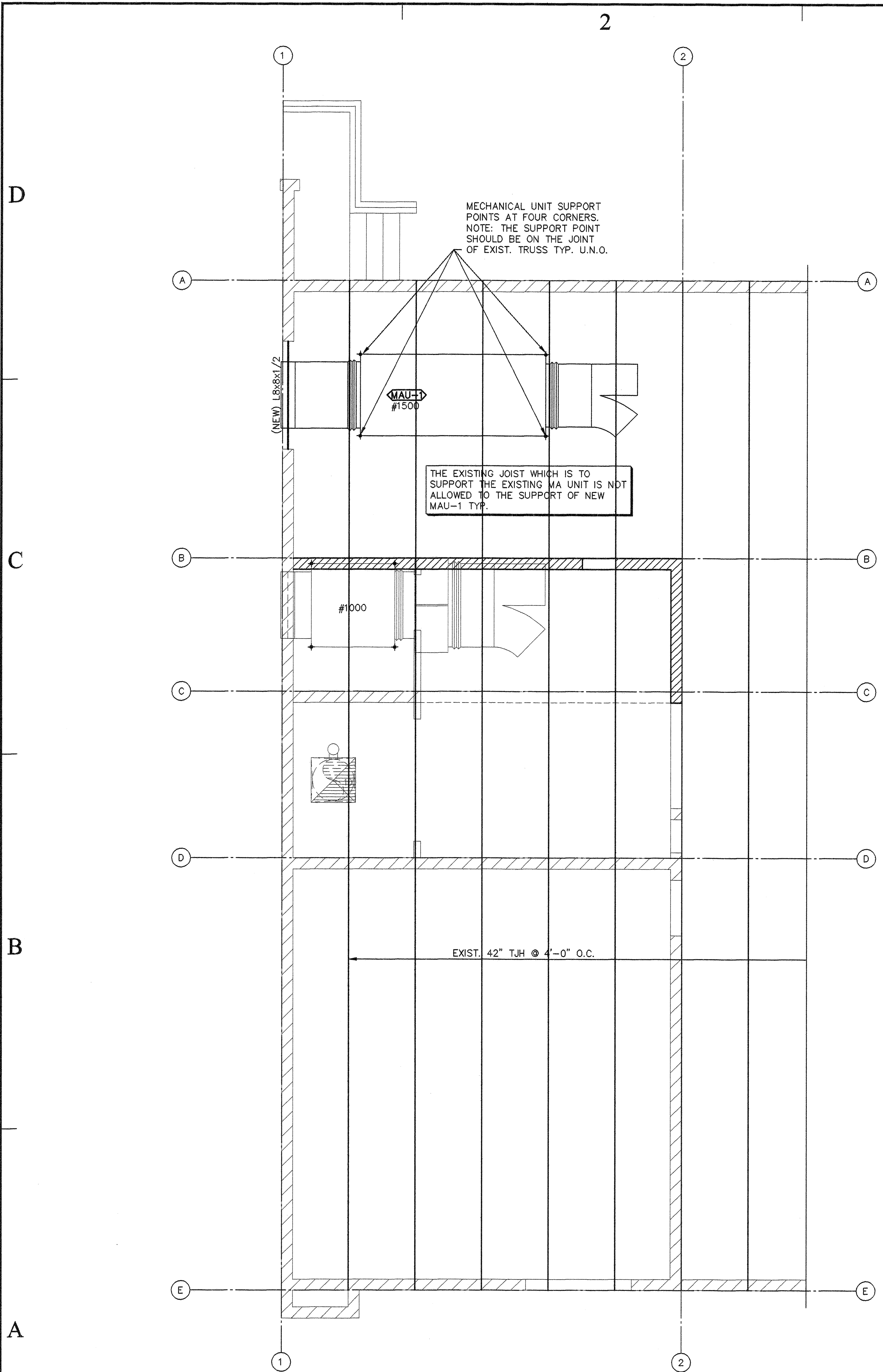
UINTAH BASIN APPLIED TECH. COLLEGE

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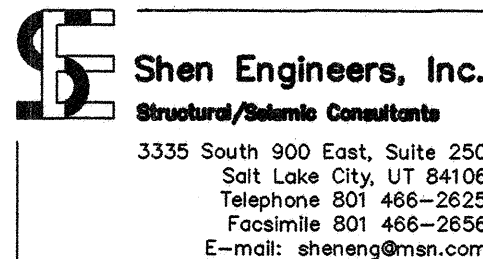
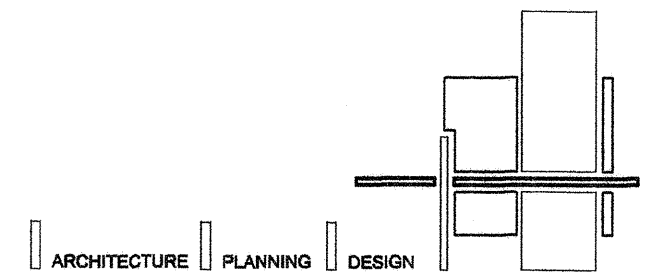
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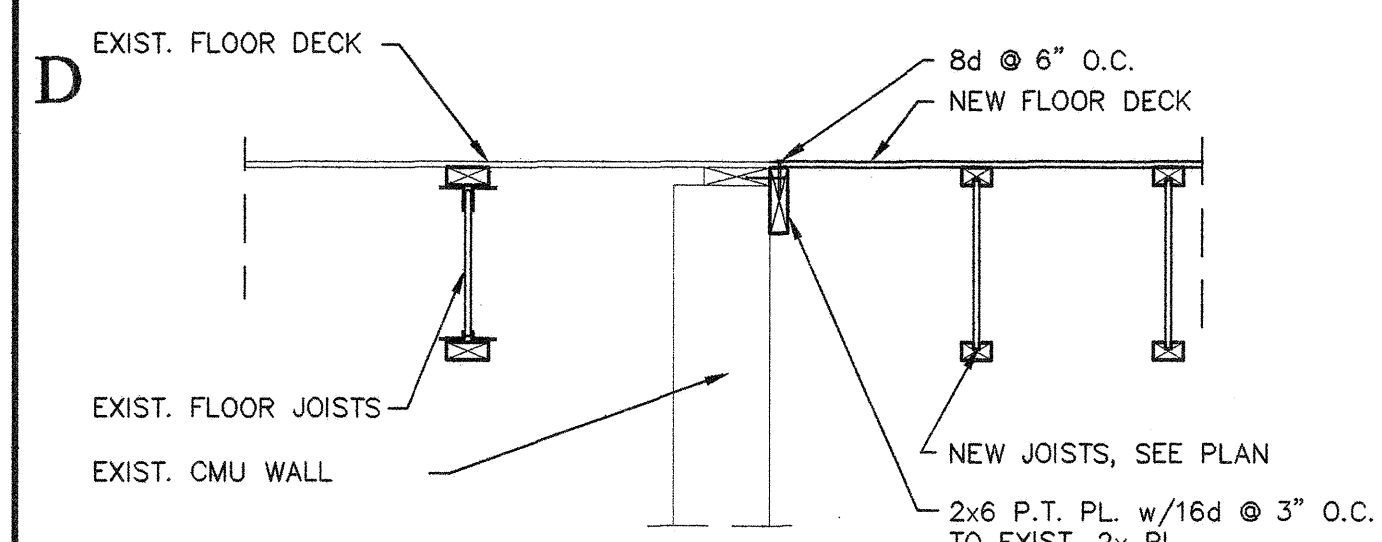
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MARK	DATE	DESCRIPTION
ISSUE TYPE: CONSTRUCTION DOCUMENTS		
ISSUE DATE: AUG. 1, 2005		
DFCM PROJECT NO:		
CAD PROJECT NO: SE05173		
CAD DWG FILE:		
DRAWN BY: BS		
CHK'D BY: HS		
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SHEET TITLE		
SHEET NUMBER		
S-FP101		
SHEET 9 OF 15		

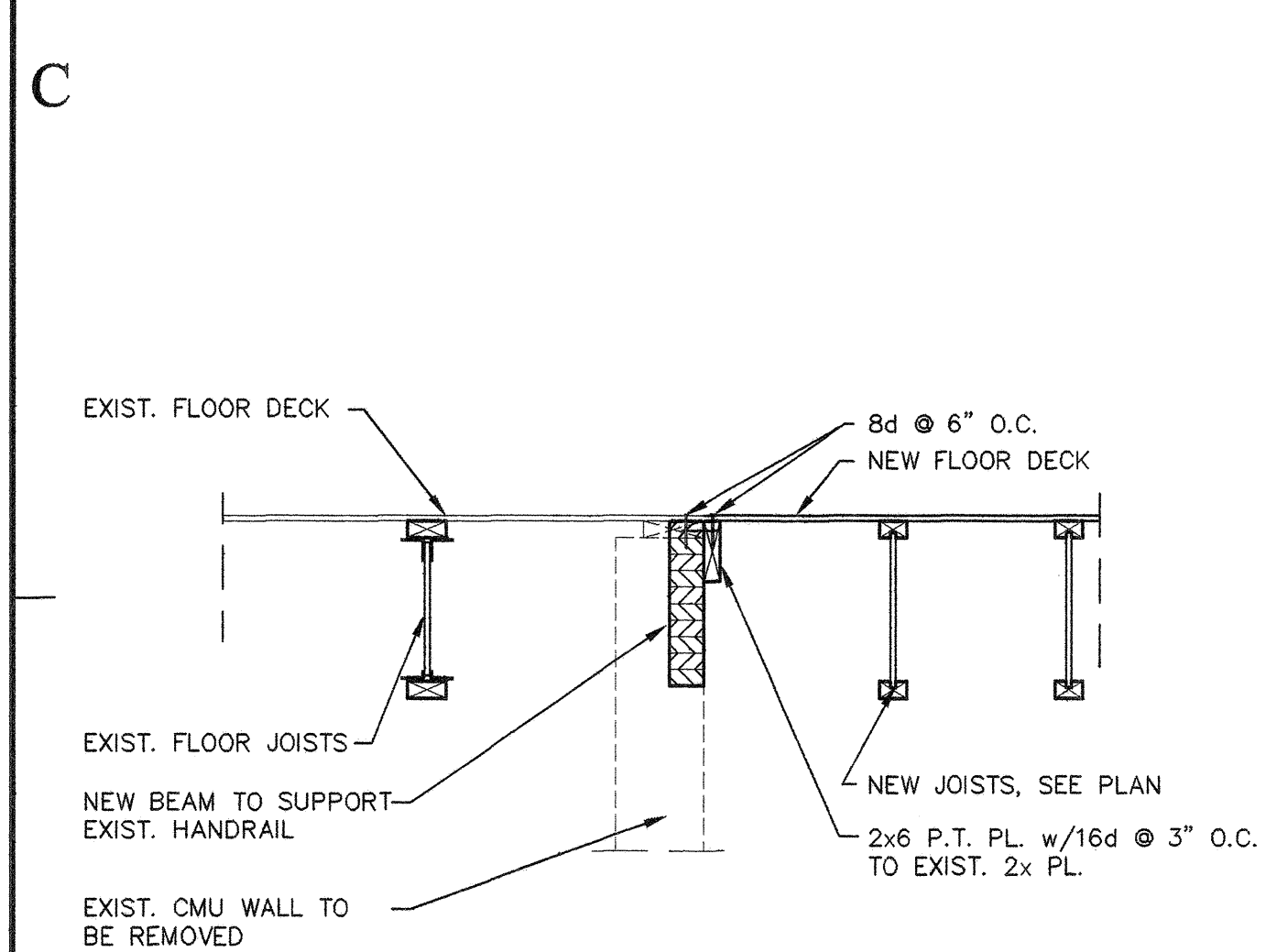


1 NEW OPENING IN C.M.U. WALL

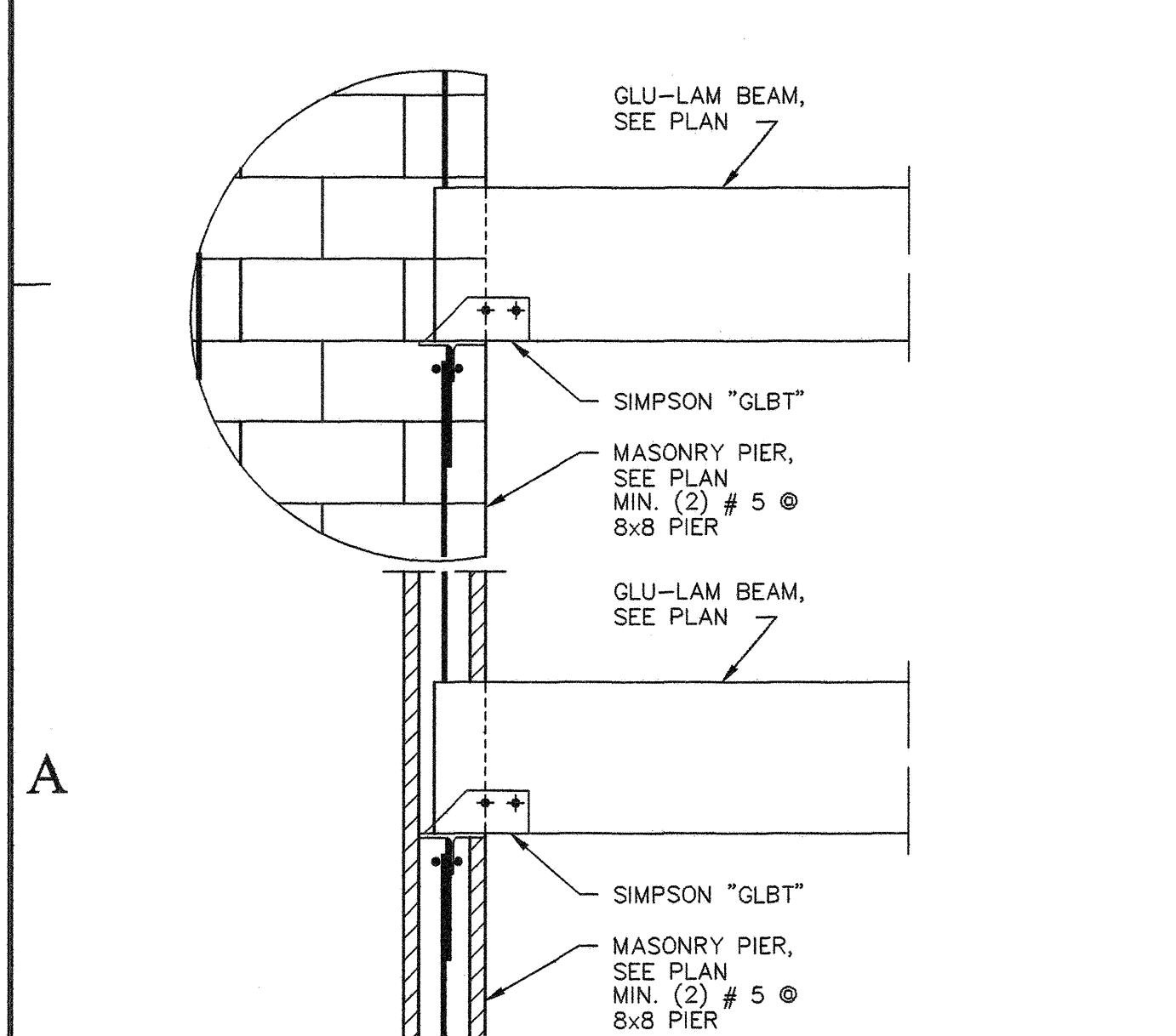




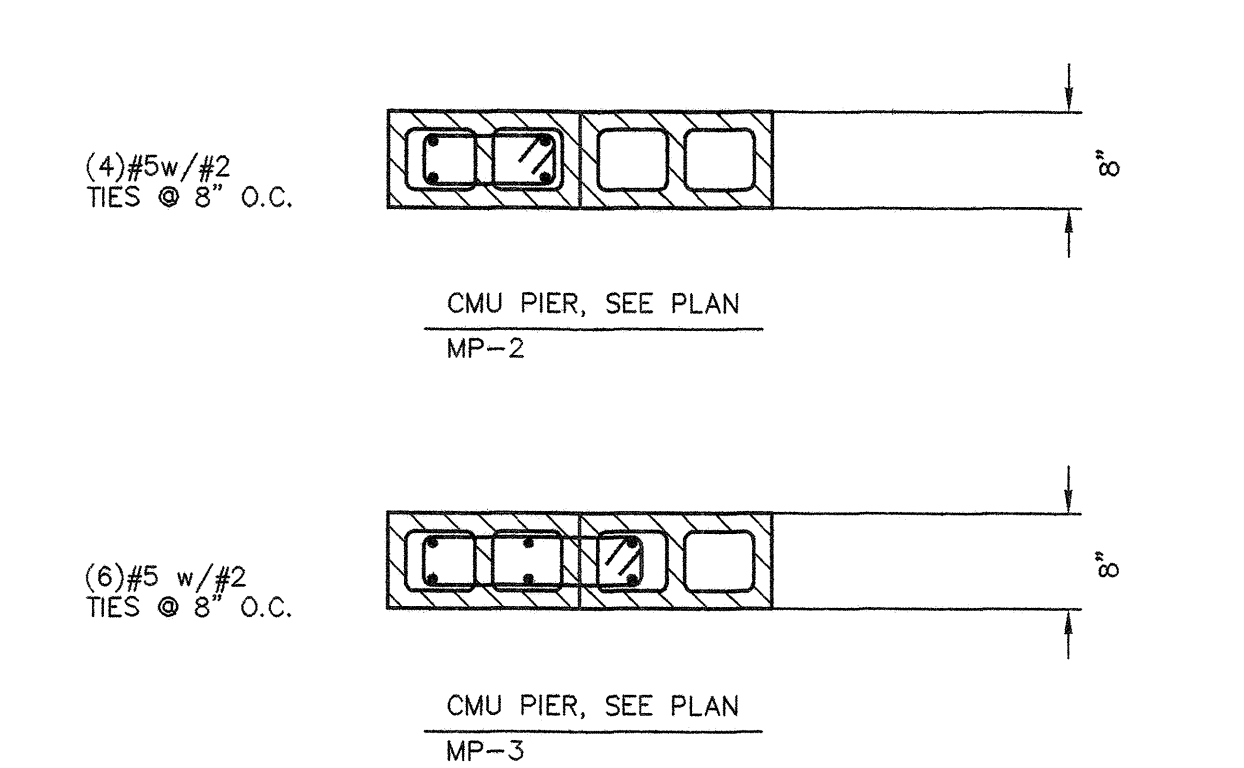
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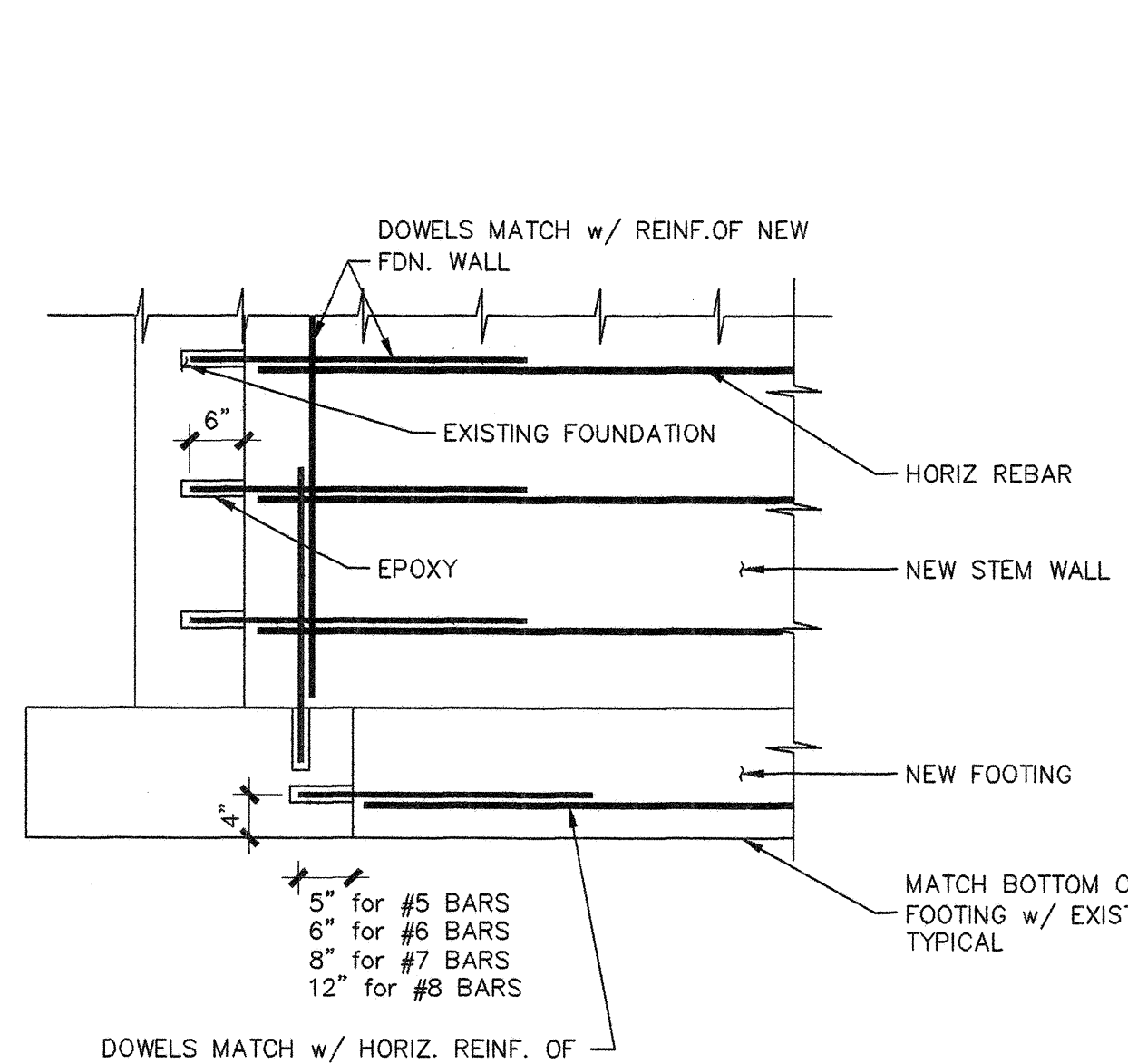
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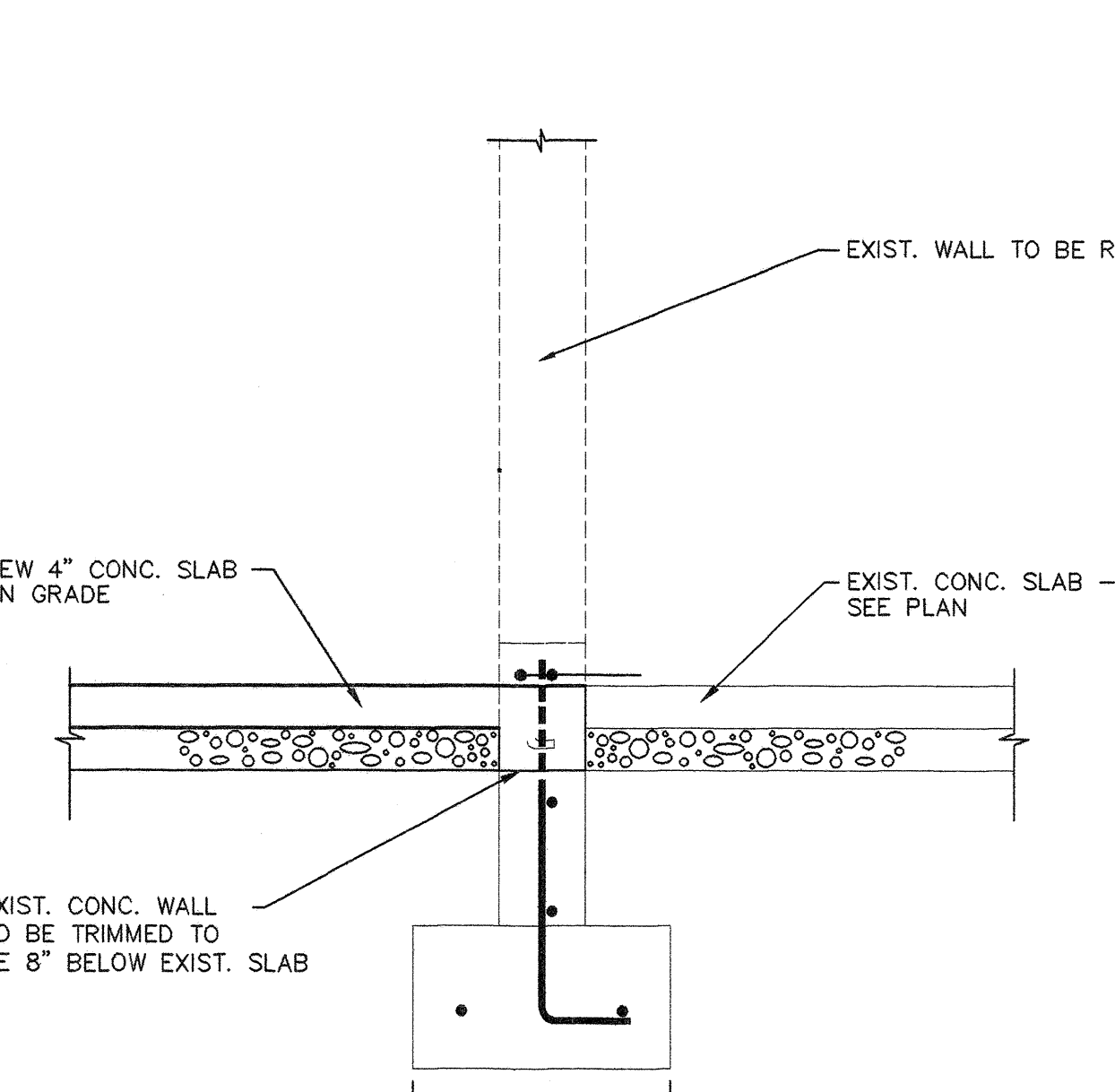
12 TYPICAL WOOD BEAM-CMU WALL CONN.



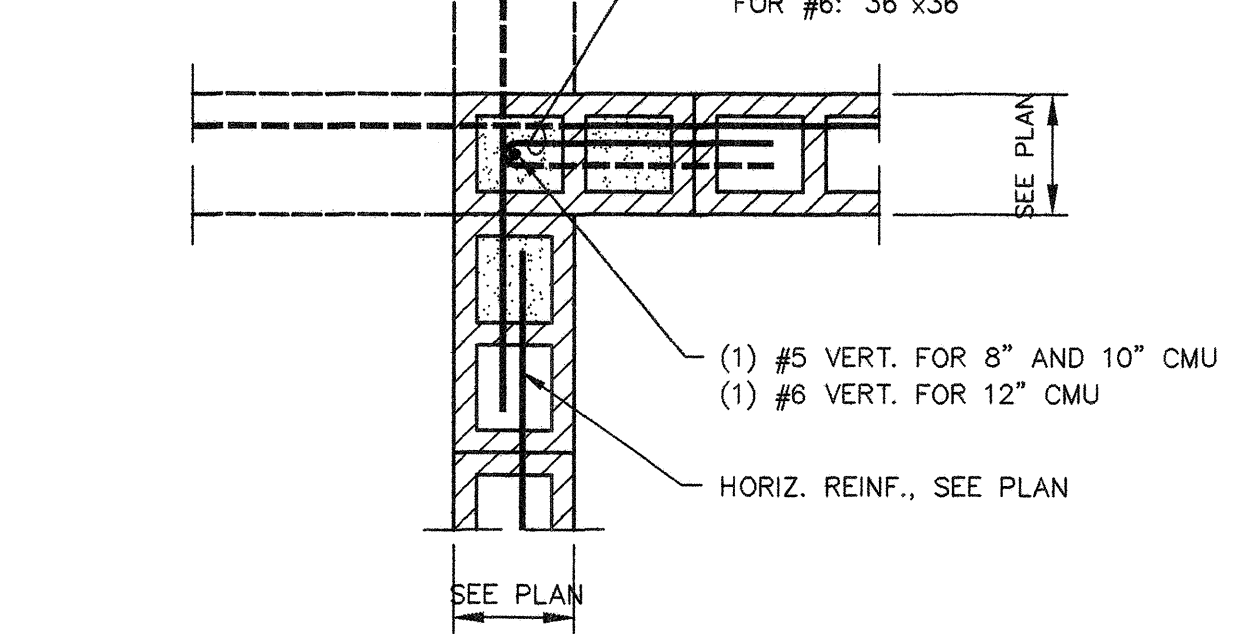
2 MASONRY PIER CONFIGURATION



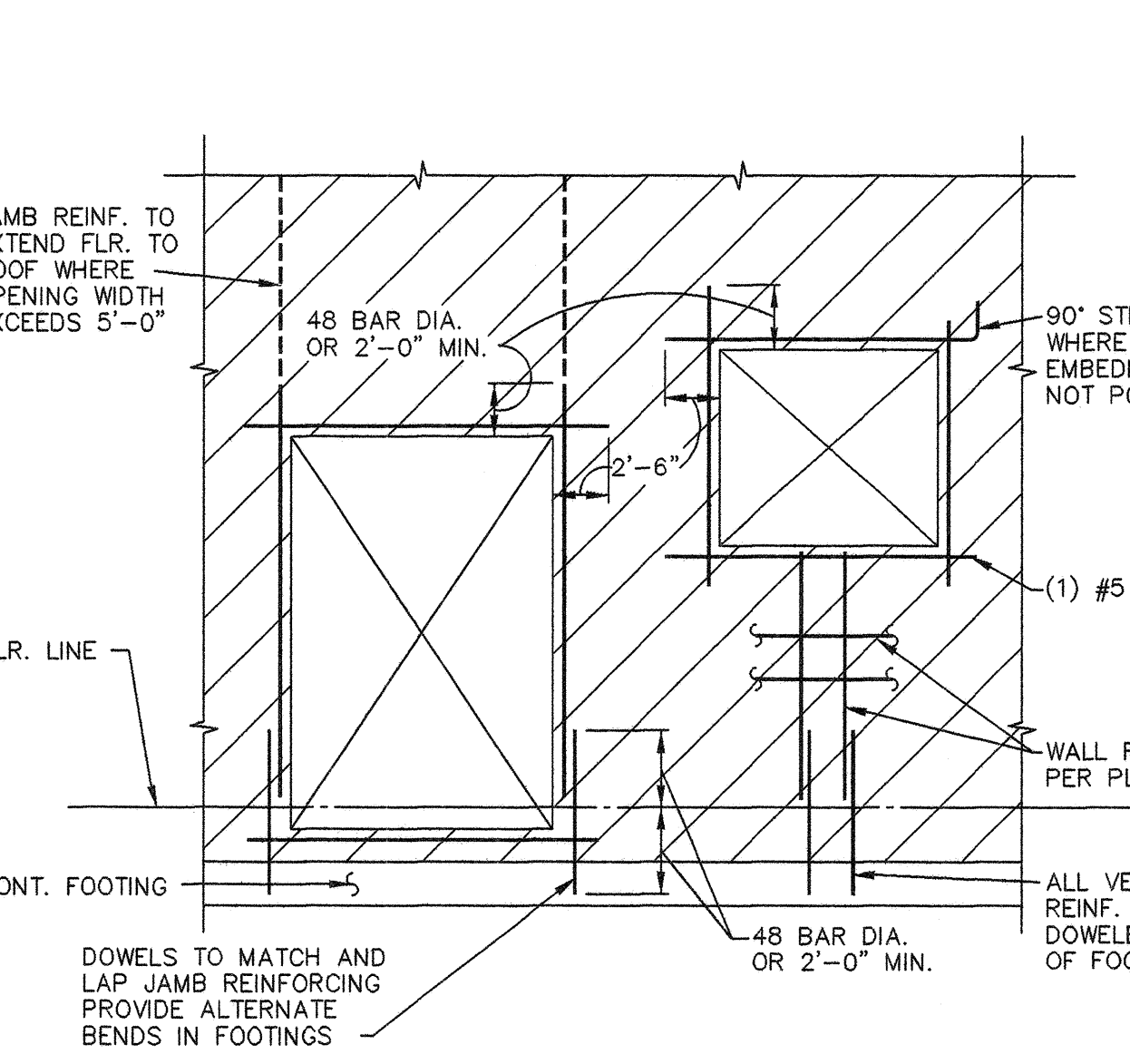
8 TYPICAL NEW FTG. TO EXIST. FTG. CONN.



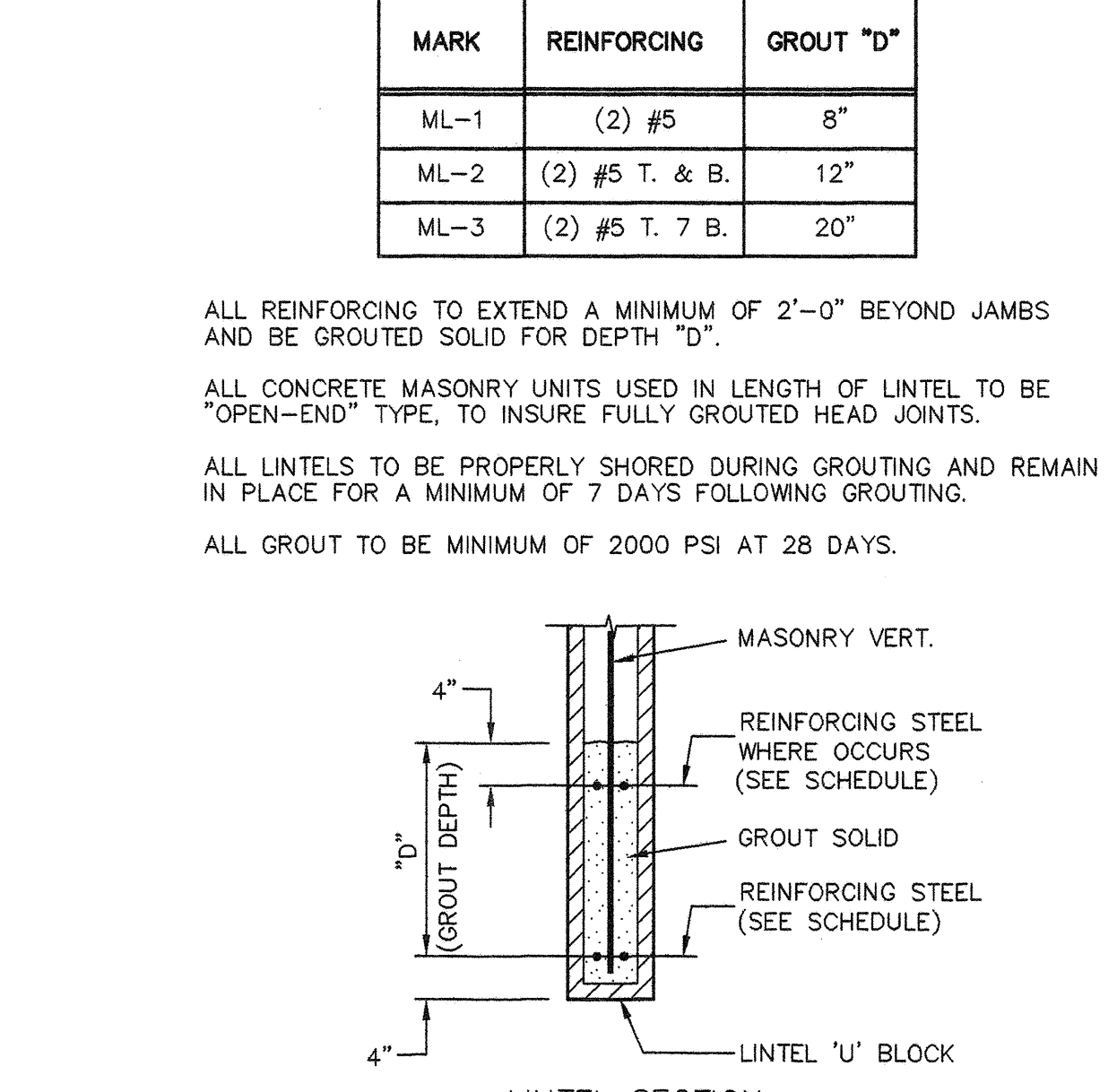
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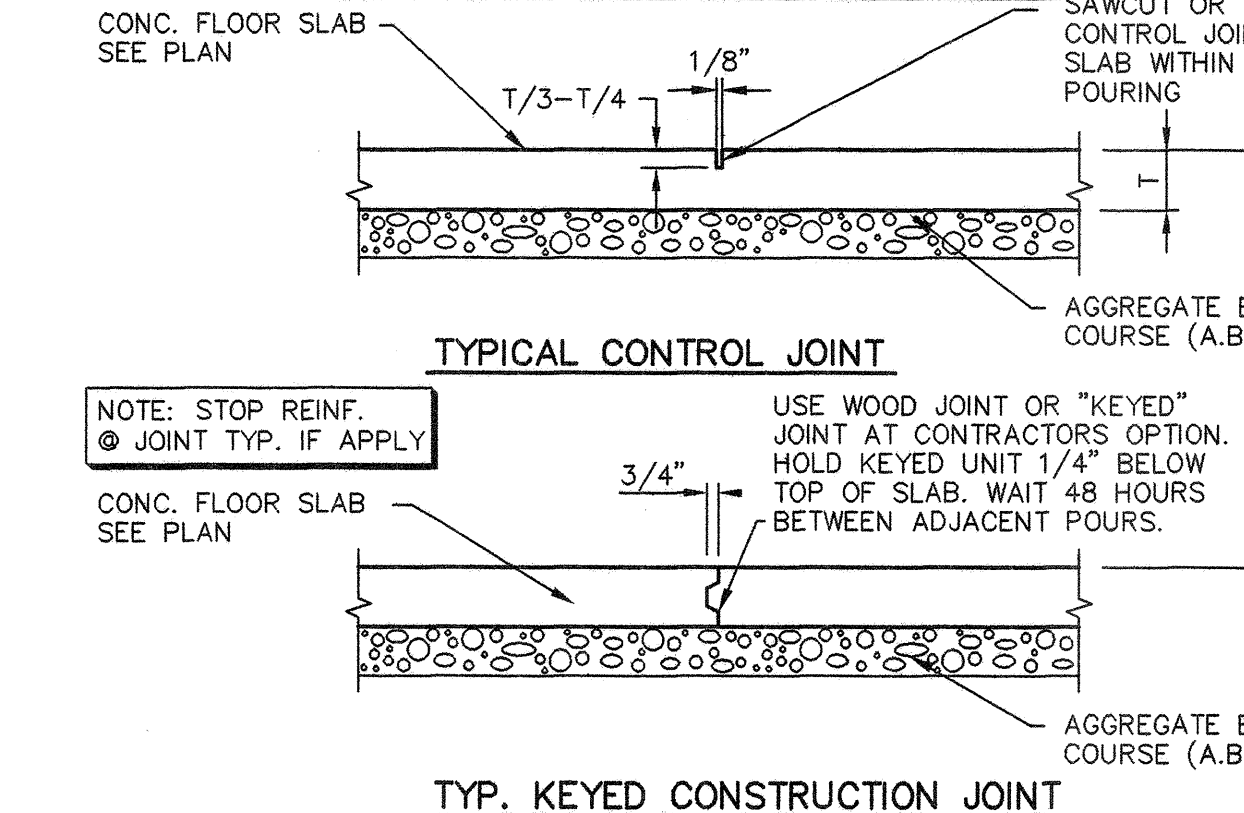
4 TYP. REINF. @ CORNER OR INTERSECTION OF WALLS



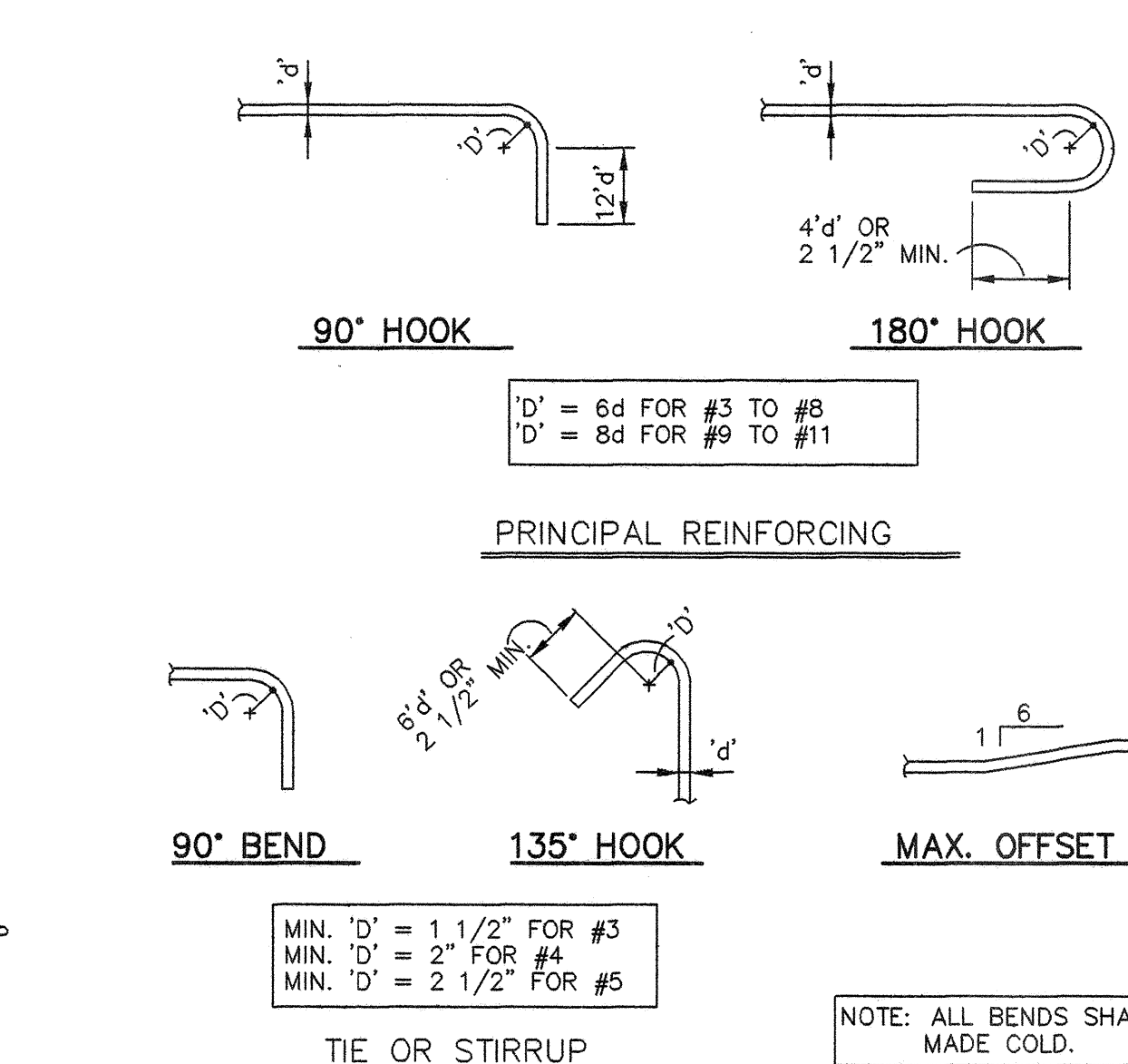
5 TYPICAL MASONRY WALL OPNG. REINF.



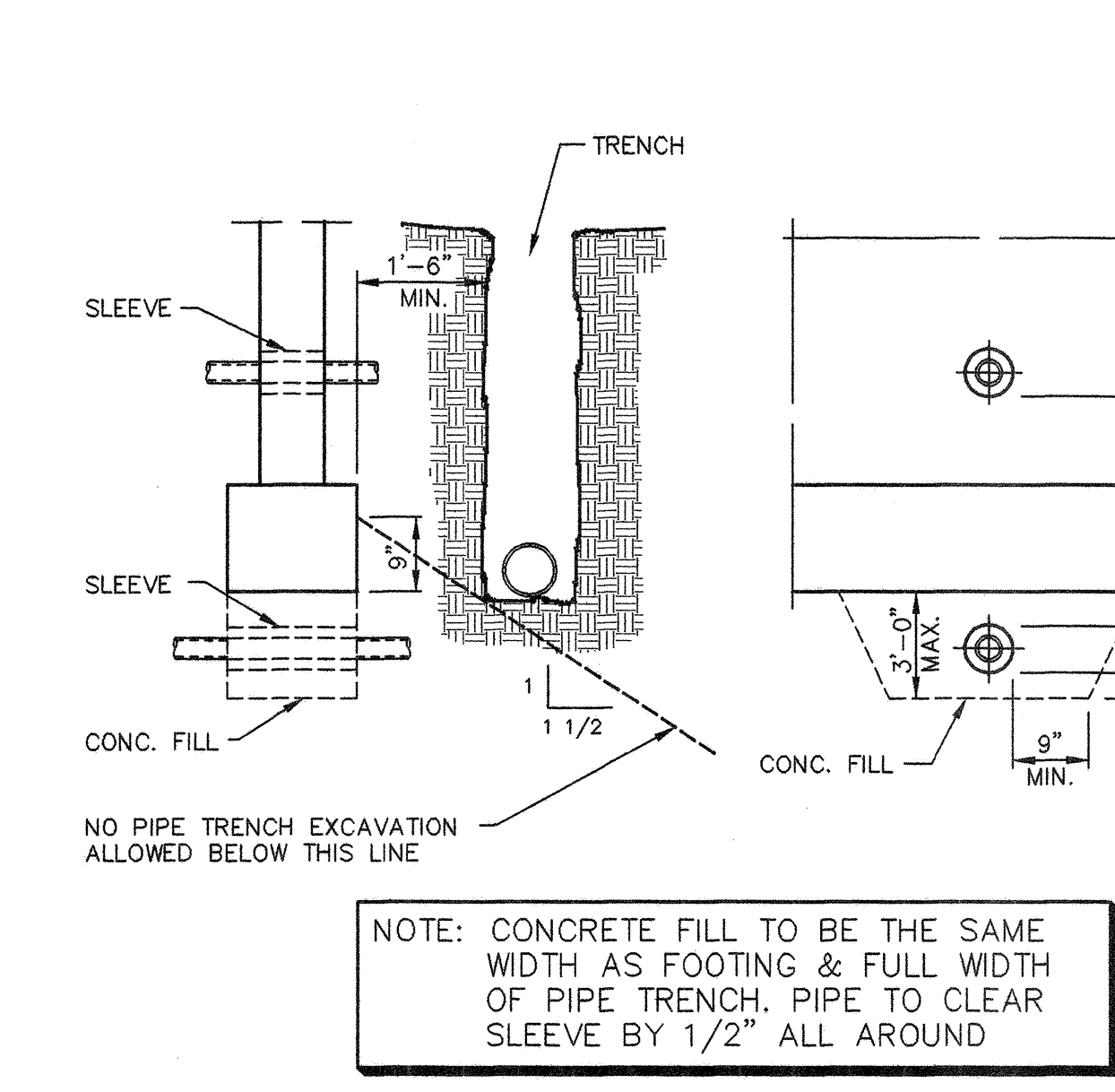
6 MASONRY LINTEL SCHEDULE



1 TYPICAL CONCRETE FLOOR JOINTS



2 TYPICAL REINFORCING BAR BENDS



3 PIPES AT CONCRETE FOOTING IF APPLY

MARK	DATE	DESCRIPTION
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ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: AUG. 1, 2005

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CAD PROJECT NO: SE05173
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SHEET TITLE

SHEET NUMBER

S-SD501

SHEET 11 OF 15

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D

C

B

A

1

2

3

4

MAKE-UP AIR UNIT SCHEDULE

SYMBOL	MANUFACTURER	MODEL	LOCATION	AIRFLOW (CFM)	EXT SP (IN)	NATURAL GAS HEATING		ELECTRICAL					MAX OPER. WEIGHT (LBS)	COMMENTS
						INPUT (BTUH)	OUTPUT (BTUH)	MOTOR H.P.	RPM	VOLT	PHASE	Hz.		
MAU-1	REZNOR	SSCBL 800	INDOOR	8,100	0.7	(800,000)	(640,000)	7.5	1200	460	3	60	1300	(1)(2)(3)(4)

- (1) SEPARATED-COMBUSTION, INDOOR HEATING AND VENTILATING UNIT CONSISTING OF BLOWER SECTION AND FURNACE SECTION.
(2) CAPACITIES BASED ON 5100 FEET ELEVATION. SEA LEVEL CAPACITIES IN ().
(3) PROVIDE A VERTICAL VENT TERMINAL AND CONCENTRIC ADAPTER WITH A VERTICAL VENT TERMINAL/COMBUSTION-AIR INLET ASSEMBLY FOR EACH FURNACE.
(4) STARTER AND DISCONNECT SHALL COME WITH UNIT.

EXHAUST FAN SCHEDULE

SYM	MANUFACTURER	MODEL NO.	CFM	STATIC PRESSURE IN WG.	H.P.	RPM	VOLTS/ PHASE/ CYCLE	AREA SERVED	CONTROL METHOD	COMMENTS
EF-1	LOREN-COOK	365 ACRU-HP	15,300	1.35	7.5	871	460/3/60	PAINT BOOTH	(A) (B) (C)	(1) (2) (3)

- (1) ALL CAPACITIES AT 5100 FT. ELEVATION.
(2) ROOF MOUNTED UPBLAST EXHAUST FAN, COMPLETE WITH PRE-FAB ROOF CURB, MOTORIZED BACKDRAFT DAMPER, BIRD SCREEN, INTEGRAL THERMAL OVERLOAD PROTECTION AND SERVICE DISCONNECT.
(3) EXHAUST FAN TO BE SPARK RESISTANT CONSTRUCTION, MOTOR TO BE EXPLOSION PROOF. (DIV II CLASS I)
(A) CONTROL: ON-OFF WALL SWITCH BY DIV. 16
(B) CONTROL: INTERLOCK WITH EXISTING PAINT BOOTH BY DIV. 16
(C) CONTROL: INTERLOCK WITH MAKE-UP AIR UNIT

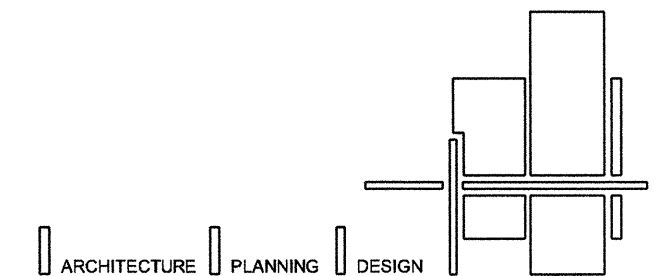
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BUILDING NAME:

UINTAH BASIN
APPLIED TECH.
COLLEGE

PROJECT TITLE:

UINTAH BASIN
APPLIED TECH.
COLLEGE PAINT
BOOTH EXPANSION

MARK	DATE	DESCRIPTION
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ISSUE TYPE: CONSTRUCTION DOCUMENTS

ISSUE DATE: NOVEMBER 09, 2005

DFCM PROJECT NO: 05078250

CAD PROJECT NO: 2005-11

CAD DWG FILE:

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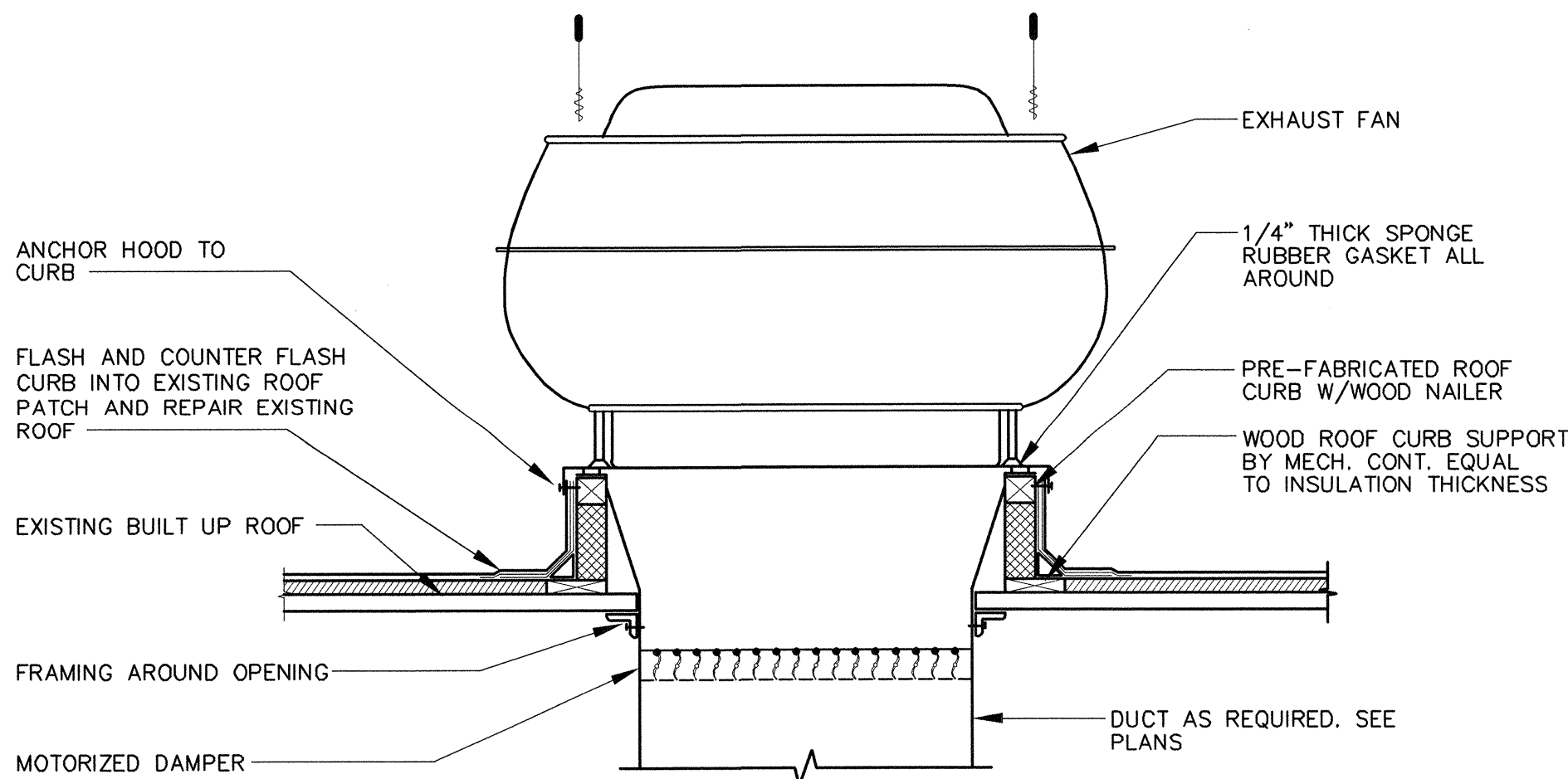
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MECHANICAL
SCHEDULES
& DETAILS

SHEET NUMBER

M-501

SHEET 14 OF 15



NOTE: MECHANICAL EQUIPMENT TO SET LEVEL. ORDER CURB TO COMPENSATE FOR ROOF SLOPE.

A4

ROOF HOOD SECTION DETAIL

SCALE: NOT TO SCALE



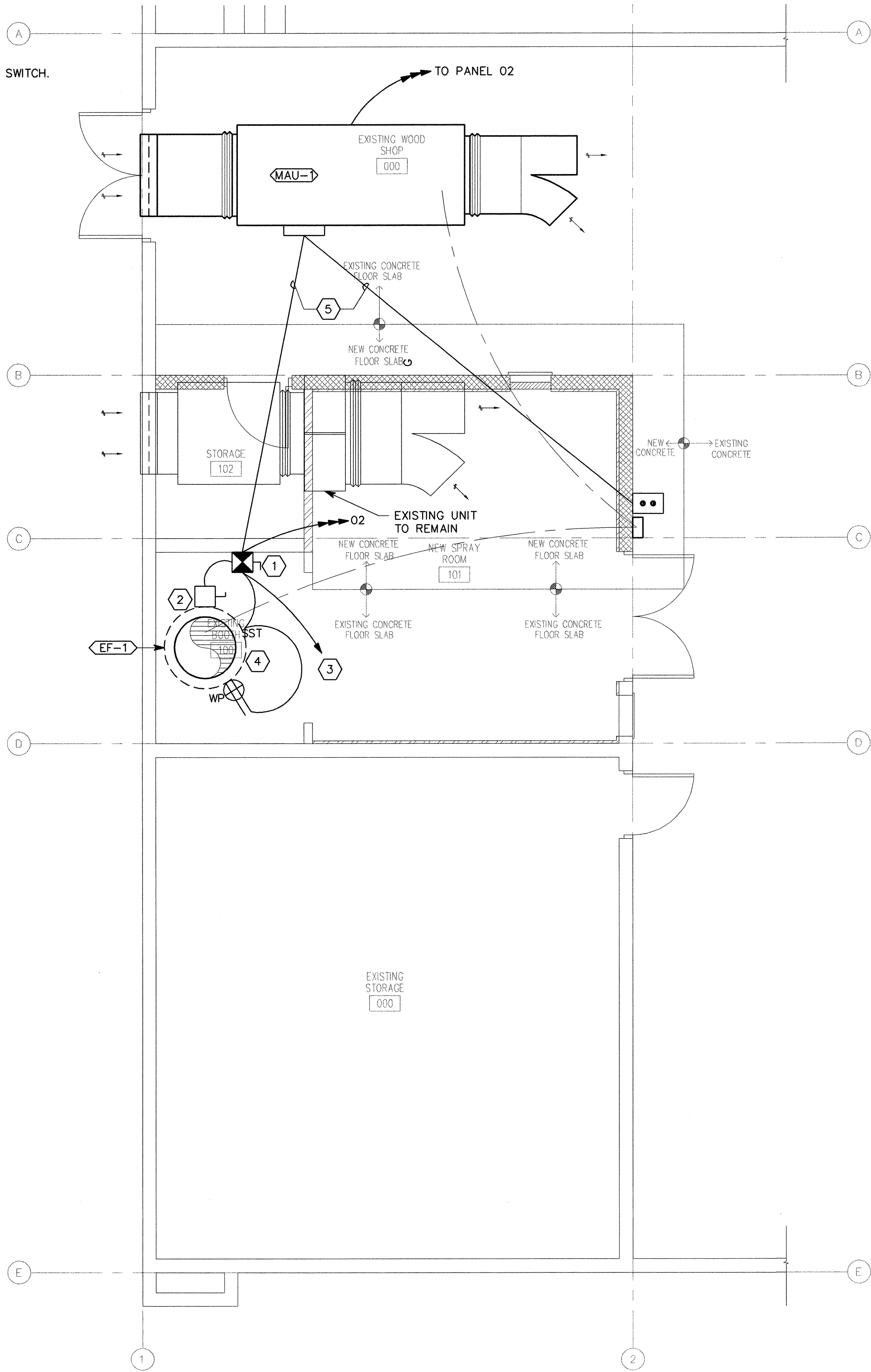
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EQUIPMENT SCHEDULE											NOTES		MARK																	
MARK	QTY	ITEM DESCRIPTION	LOAD DATA						WIRE AND CONDUIT SIZE	OVERCURRENT PROTECTION			DISCONNECT			STARTER DATA												NOTES	MARK	
			HP	kW	MCA	FLA	VOLT	PH		Hz	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	FURN BY	DEVICE	LOCATION	SIZE	SPEED	CTRL VOLT	SELECTOR SWITCH	PUSH BUTTON	PILOT LAMP	NORMALLY OPEN CONTACTS	NORMALLY CLOSED CONTACTS			PHASE FAILURE RELAY
MAU-1		MAKE UP AIR UNIT	7.5			11	480	3	60	3#10 THWN CU 1#10 GR, 3/4"C	E	30A/3P CB	PANEL 02	Q			Q												** 3	MAU-1
EF-1		EXHAUST FAN	7.5			11	480	3	60	3#10 THWN CU 1#10 GR, 3/4"C	E	30A/3P CB	PANEL 02	Q	30A3PNF NENA 3R	ADJ TO EQUIP	E	FVNR NENA 1	1	1	871		HOA		2	2			**1,3	EF-1
EF-1		MOTORIZED DAMPER					120	1	60	2#12 THWN CU 1#12 GR, 3/4"C	E	20A/3P CB	PANEL 0	E	THERMAL SWITCH													4, 5	EF-1	

- NOTES
- LOCATED IN ROOM ABOVE SPRAY ROOM
 - PROVIDE 120 VAC FOR CONTROL POWER AND MOTORIZED DAMPER
 - PROVIDE NEW 30A 3 POLE CIRCUIT BREAKER IN PANEL 02 TO MATCH EXISTING CIRCUIT BREAKERS IN PANEL.
 - FOR MOTORS LESS THAN 1 HP, IF MOTOR NAMEPLATE SHOWS THE MOTOR TO BE THERMALLY PROTECTED, A DISCONNECT MAY BE SUBSTITUTED FOR THE THERMAL SWITCH.
 - PROVIDE NEW 20A 1 POLE CIRCUIT BREAKER IN PANEL 0 TO MATCH EXISTING CIRCUIT BREAKERS IN PANEL.

SYMBOL LEGEND	
SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
	ROOM OR SPACE NUMBER.
	KEYNOTE INDICATOR.
	REVISION INDICATOR.
	EQUIPMENT INDICATOR.
WIRING METHODS	
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED 200 FEET.
	JUNCTION BOX.
WIRING DEVICES	
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
ELECTRICAL POWER AND DISTRIBUTION	
	DISCONNECT SWITCH, FUSED.
	DISCONNECT SWITCH, UNFUSED.
	STARTER, COMBINATION WITH DISCONNECT SWITCH.
	PUSH BUTTON STATION START & STOP.

EQUIPMENT SCHEDULE KEY	
E	DIVISION 16
Q	FURNISHED WITH THE EQUIPMENT
*	COORDINATE WITH THE DIVISION 15 TEMPERATURE CONTROL INSTALLER
**	AUTOMATIC CONTROL WIRING BY DIVISION 15
HP	HORSE POWER. IF MOTORS UNDER 1HP ARE SHOWN TO BE THERMALLY PROTECTED ON THEIR NAMEPLATES, A NON-FUSED DISCONNECT SWITCH MAY BE SUBSTITUTED FOR THE THERMAL SWITCH.
HOA	HAND OFF AUTO SWITCH
RTU	DISCONNECT SWITCH LOCATED AT ROOF TOP UNIT
STD	MANUFACTURER'S STANDARD
TBD	TO BE DETERMINED BY CONTRACTOR BASED ON EQUIPMENT FLA RATING ON NAMEPLATE
CC#	CONDUCTOR & CONDUIT SCHEDULE SYMBOL NUMBER
##A	FRAME SIZE OF DISCONNECT SWITCH
##AF	AMP RATING OF FUSES IN FUSED DISCONNECT SWITCH
NF	NON FUSED DISCONNECT SWITCH
#P	# OF POLES



A3 NEW ELECTRICAL PLAN
SCALE: 1/4" = 1'-0"

GENERAL SHEET NOTES

- PANEL 0 & 02 IS LOCATED IN A ROOM 150' TO THE WEST AND 50' TO THE NORTH OF THE NEW EQUIPMENT. CONTRACTOR TO VISIT SITE AND LOCATE PANEL PRIOR TO BID.
- PROVIDE CONDUIT AND CONDUCTOR TO PANELS AS PER EQUIPMENT SCHEDULE.

SHEET KEYNOTES

- MOTOR STARTER IN ROOM BELOW FAN AND ABOVE PAINT ROOM.
- DISCONNECT ADJACENT TO FAN.
- TO PANEL "O" PROVIDE POWER FOR MOTORIZED DAMPER AND MOTOR STARTER CONTROL.
- THERMAL SWITCH OR MOTORIZED DAMPER. PROVIDE 3/4" CONDUIT WITH 3EA #12 THHN. CONTROL DAMPER WITH AUX CONTACT ON FAN MOTOR STARTER SUCH THAT DAMPER OPENS WHEN FAN IS ON. DO NOT SWITCH POWER TO CONVENIENCE OUTLET.
- PROVIDE 3/4" CONDUIT WITH 4EA #12 THHN FOR CONTROL. INTERLOCK EXHAUST FAN WITH MAU SUCH THAT PUSH BUTTON TURNS ON MAU AND MAU AUXILIARY CONTACT TURNS ON EXHAUST FAN. HAND POSITION ON EXHAUST FAN HOA SWITCH OVERRIDES INTERLOCK TO TURN ON FAN. PROVIDE GENERAL ELECTRIC CR2943-NA102W PUSH BUTTON STATION.

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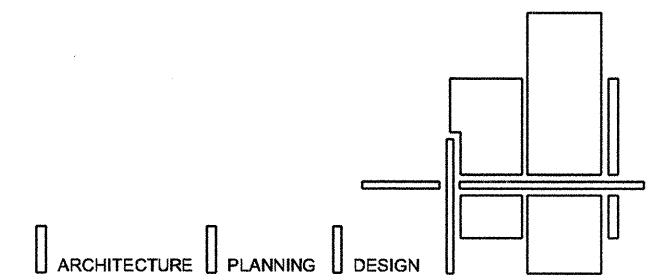
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COLLEGE PAINT
BOOTH EXPANSION**

MARK	DATE	DESCRIPTION
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CAD DWG FILE:

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SHEET TITLE

**ELECTRICAL
FLOOR PLAN**

SHEET NUMBER

E-101

SHEET 15 OF 15

